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URBAN TRANSPORTATION SURVEY

of

GREAT FALLS, MONTANA

CONDUCTED BY

MONTANA STATE HIGHWAY COMMISSION
PLANNING SURVEY DIVISION
IN COOPERATION WITH
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
AND THE
CITY OF GREAT FALLS

VOLUME II
AUGUST 1963

PREPARED BY

PLANNING SURVEY DIVISION

OF

MONTANA STATE HIGHWAY COMMISSION

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With Valuable Assistance
From Personnel Of:

BUREAU OF PUBLIC ROADS

AND

CITY OF GREAT FALLS

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D E F I N I T I O N S

METROPOLITAN AREA TRAFFIC SURVEY

A survey of highway and street travel by all modes of transportation designed to collect detailed information concerning trip origins and destinations within a selected area.

METROPOLITAN OR STUDY AREA

The area selected to be studied, completely encompassed by the cordon line.

CORDON LINE

A hypothetical line delimiting the metropolitan area.

EXTERNAL SURVEY

That phase of the study in which travel data are obtained by interviewing motor vehicle operators intercepted at external stations located on the principal roads and highways crossing the cordon line.

INTERNAL SURVEY

That phase of the survey in which trip data are obtained by interviewing the residents of a preselected dwelling unit sample and the operators of a representative portion of taxicabs and trucks registered inside the cordon line.

TRIP

One-way travel between points of origin and destination.

ORIGIN

The stated beginning point of a single trip.

DESTINATION

The stated terminating point of a single trip.

INTERNAL TRIP

A trip with both points of origin and destination located inside the cordon line.

EXTERNAL LOCAL TRIP

A trip with point of origin or point of destination located within the cordon line, the performance of which entails travel through an external interview station.

EXTERNAL THROUGH TRIP

A trip with both points of origin or destination located beyond the cordon line, the performance of which entails travel into and through the metropolitan area.

DESIRE LINE

An imaginary line drawn between stations, districts, zones or subzones which connects an origin with a destination directly, without reference to the existing street system.

STATION

Point of interview on the cordon line.

SECTION, DISTRICT, ZONE, SUBZONE

Major and minor divisions of the metropolitan area for purpose of trip analysis and route assignment.

DWELLING UNIT

Living quarters occupied or intended for occupancy by a household or by persons having no other place of residence. On military reservations a "dwelling unit" may be quarters for a family or a single bed in a barracks.

LAND USE

The purpose for which land, or structures thereon, is occupied, maintained or leased.

NET AREA OF LAND USE

That portion of the land within the survey area actually devoted to a certain land use. A net acre excludes streets, alleys and undeveloped portions of land.

Introduction

I N T R O D U C T I O N

The Great Falls Urban Transportation Survey consists of several activities and phases extending over a substantial period of time. In the interest of reporting the data as soon as possible after completion of collection, analysis and summarization, the decision was reached during the preliminary stages to issue separate volumes containing related data as developed to that point. In conformity with this decision, the volumes are to be published as shown below:

Volume I

- Introduction
- Description of Phases
- History and Development
- Parking Survey
- Internal Cordon Counts

Volume II

- External Cordon Origin-Destination Survey
- Home Interview of Internal Passenger Trips
- Truck and Taxi Interviews
- Land Use Inventory

Volume III

- Traffic Volumes, Controls and Capacity Surveys
- Street Inventory and Classification
- Accident Data

Volume IV

Summary of All Data and Recommendations

Forecasts of Future Population, Traffic and Development

Recommended Transportation Plan

As Volume II, this report describes the procedures used in developing the required travel data within the prescribed study area and it summarizes the data in narrative, tabular and graphical form. It also includes data pertaining to present land use throughout the Study area.

Survey Summary

SURVEY SUMMARY

EXTERNAL ORIGIN AND DESTINATION SURVEY

There was a total of 20,716 vehicle trips that crossed the cordon line in both directions at 11 stations on an average weekday in 1961. Trucks, including pickups and panels, accounted for about 23 percent of the total vehicles counted at the cordon line.

Only 932 trips, or about 5 percent, of the external trips did not stop within the internal area.

The Central Business District of Great Falls was the origin or destination of 4,059 trips, or approximately 20 percent, of the total external trips.

Twenty-two percent of the external trips that terminated in Great-Falls had either an origin or destination west of the Missouri River. The remaining 78 percent of the trips began or ended east of the River.

External passenger car trips were grouped into the following trip purposes.

Trip Purpose	No. of Trips	Percent
Work	4,126	25.9
Business	4,874	30.6
Medical-Dental	362	2.3
School	44	0.3
Social-Recreational	4,926	31.0
Change Travel Mode	34	0.2
Eat Meal	82	0.5
Shopping	1,063	6.7
Serve Passenger	395	2.5
TOTAL	15,906	100.0

The average occupancy of external passenger cars by trip purpose was as follows:

Trip Purpose	Non Through	Through	Total All Trips
Work	1.4	1.5	1.4
Business	1.8	1.9	1.9
Medical-Dental	2.7	2.3	2.7
School	1.9	2.0	1.9
Social-Recreational	2.7	2.9	2.8
Change Travel Mode	2.1	2.5	2.1
Eat Meal	2.2	3.0	2.2
Shopping	2.5	2.0	2.5
Serve Passenger	2.3	3.0	2.4
TOTAL	2.1	2.4	2.1

INTERNAL ORIGIN & DESTINATION SURVEY

There was a total of 131,337 vehicle trips per day made by all vehicles within the internal study area. Truck trips totaled 19,418, or 15 percent, and taxi trips amounted to 2,230, or about 2 percent, of the total internal vehicular travel.

There were 178,017 person trips made by residents of the internal area on an average weekday in 1961. These trips were made by persons using the following modes of travel:

TRAVEL MODE	Number of Persons	Percent
Auto Drivers	109,533	61.5
Auto, Truck, Taxi Passengers	63,853	35.9
Schoolbus Passengers	3,874	2.2
Walk to Work - First Trip	757	0.4
TOTAL	178,017	100.0

The motivating trip purposes for internal trips were grouped as follows:

Trip Purpose	No. of Trips	Percent
Work	37,531	21.1
Business	18,568	10.4
Medical-Dental	2,607	1.5
School	5,982	3.4
Social-Recreational	60,597	34.0
Change Travel Mode	184	0.1
Eat Meal	4,023	2.2
Shopping	28,829	16.2
Serve Passenger	19,696	11.1
TOTAL	178,017	100.0

In the above tabulation, "home" as a trip purpose has been eliminated, and the actual purpose that motivated the trip has been used. Trips with either an origin or destination at home totaled 136,443, or 77 percent, of the average daily internal person travel.

The average passenger car occupancy by trip purpose for internal travel was as follows:

Purpose From	Average Occupancy	Purpose To	Average Occupancy
Home	2.4	Home	2.4
Work	1.3	Work	1.3
Business	2.1	Business	2.1
Medical-Dental	2.7	Medical-Dental	2.7
School	3.1	School	3.0
Social-Recreational	3.2	Social-Recreational	3.3
Change Travel Mode	2.3	Change Travel Mode	1.9
Eat Meal	1.5	Eat Meal	1.5
Shopping	2.4	Shopping	2.4
Serve Passenger	2.3	Serve Passenger	2.2
ALL PURPOSES	2.4	ALL PURPOSES	2.4

A total of 42,687 trips were made between the Central Business District and other internal districts on an average day in 1961. Trips within the Central Business District totaled 4,309. All internal trips generated by the Central Business District (46,996) amounted to 36 percent of the total of 131,337 internal trips.

The Missouri River was crossed by 27,335 trips, or 21 percent, of the total internal vehicular trips.

DWELLING UNIT SURVEY

Total trips for all purposes amounted to 6.8 per dwelling on an average weekday in 1961. Auto driver trips per dwelling averaged 4.3 per day during the same period.

There were an estimated 23,815 dwellings and 74,735 persons within the internal study area as of December 31, 1961, as developed from expansion of the dwelling sampling process.

Passenger cars within the study area totaled 27,057, or 1 for every 2.76 persons. This ratio compares with a national average of 1 for every 2.92 persons in 1960.

LAND USE SURVEY

The study area contained 20,564 acres of land of which 8,731 acres, or 42 percent, were developed.

Each net or developed residential acre contained an average of 9 dwellings and 28 persons.

The amount and percent of developed land being used for each purpose is as follows:

Purpose	Developed Land	
	Acres	Percent
Residential	2,651.8	30.4
Commercial	290.2	3.3
Industrial	1,203.6	13.8
Public and Semi-Public	2,157.5	24.7
Streets and Alleys	2,428.2	27.8
TOTAL DEVELOPED LAND	8,731.3	100.0

Origin and Destination Surveys

ORIGIN AND DESTINATION SURVEYS

For proper urban transportation planning, it is necessary to have full knowledge concerning the movement of persons and goods within the urban area of the city. Information concerning vehicular movements at specific points can be obtained by counting and classifying passing traffic; however, such information does not provide the necessary data concerning the origins and destinations of the trips or the desired routings. Such information can best be obtained by interviewing the vehicle operators for the purpose of developing driver, vehicle and trip characteristics.

If all travel within the urban area was performed by residents of the area, the required information could be obtained by means of interviewing the local residents at their dwellings. It is evident, however, that a substantial part of the travel within the urban area is performed by persons living outside that area, and this situation makes it necessary that some method be developed for obtaining the travel data for the external residents. This objective is accomplished by establishing a cordon line around the perimeter of the urban area and interviewing vehicle drivers at points where the main roads and highways cross this line. From these drivers, information can be obtained regarding the trips with origins, destinations or both outside the cordon line.

The interviewing of persons living inside the cordon line is known as the internal survey, and the interviewing of motorists on the roads and highways at the cordon line is known as the external survey. It is apparent that some trips by internal residents will cross the cordon line and they will be subject to duplicate reporting. It is essential that

these duplicate trips be eliminated, and experience has shown that this can best be accomplished by eliminating the internal-external trips reported in the internal survey. This procedure has been followed in this survey.

SURVEY AREA BOUNDARIES

The following recommendations have been followed in selecting the location for the cordon line:

1. The contiguous, thickly populated suburban sections should be included within the cordon line.

2. The cordon line should not extend through a network of roads and streets, as this would necessitate the operation of too many external interview stations.

3. The cordon line should intersect the roads and highways at points where it is feasible to operate interview stations.

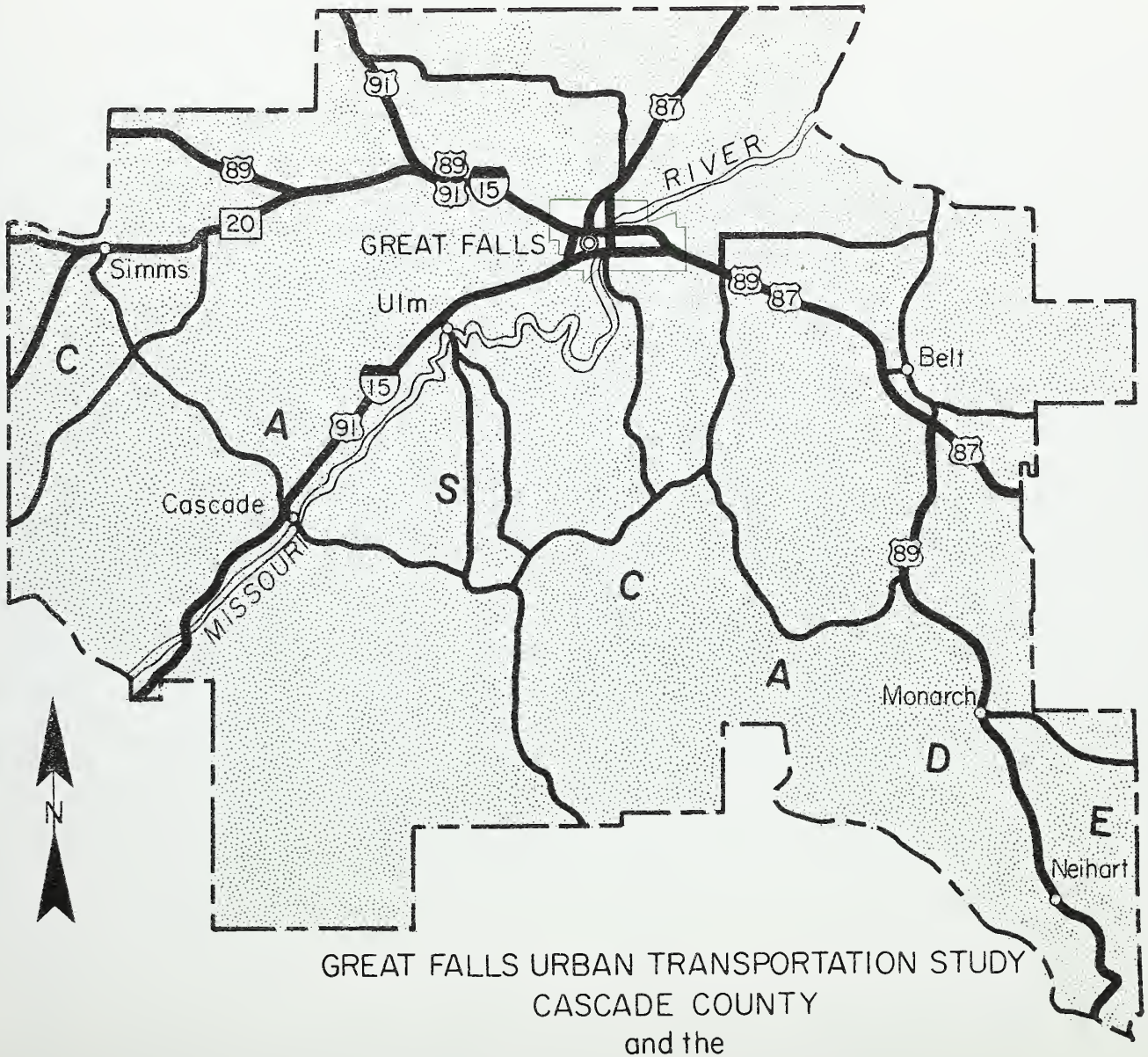
4. The general course of the line around the urban area should be uniform in nature and without major deviations.

5. Sufficient interview stations should be established to assure that about 95 percent of the total traffic crossing the line is covered.

Exhibit 1 on page 16 shows the general location of the external cordon line and the relationship between the survey area and Cascade County. The internal area, enclosed by the cordon line, contains about 20,000 acres of land and 75,000 persons as of December 31, 1961.

External Origin and Destination Survey

The external cordon line intercepted four U.S. numbered highways, three Federal Aid Secondary routes and eight county roads, for a total of 15 potential external interview locations. Preliminary traffic counts



GREAT FALLS URBAN TRANSPORTATION STUDY
CASCADE COUNTY
and the
GREAT FALLS STUDY AREA

EXHIBIT I

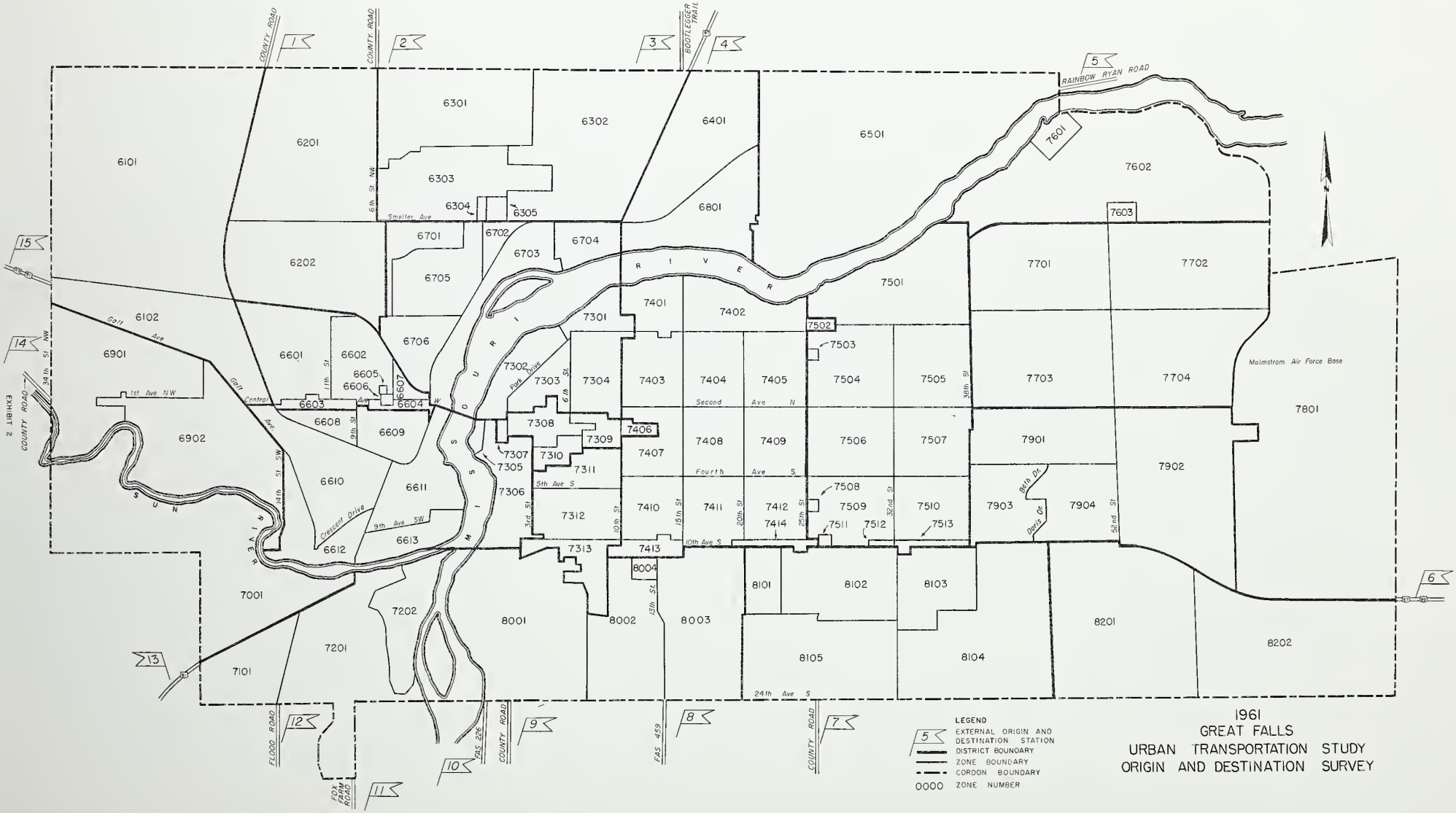
of all locations indicated that four county roads were carrying less than five percent of the total external traffic. These four roads were therefore omitted from the external interviewing, since the other 11 stations would cover the required 95 percent of total traffic crossing the line.

Roadside interviews were conducted in both directions at the remaining 11 locations on the external cordon. Each station was operated for 16 hours in each direction from 6 a.m. to 10 p.m. on weekdays. This phase of the survey began June 20, 1961 and was completed August 1, 1961. Trip data were obtained from 14,426,or 70 percent, of the 20,716 vehicles that crossed the external cordon on an average 24 hour weekday during the survey period.

The total number of external interviews obtained (14,426) also amounted to 83.5 percent of the 17,275 vehicles passing all stations in both directions during the 16 hours of station operation.

Exhibit No. 2, page 18 shows the sites for the interview stations that were established on the principal highways and other roads crossing the cordon line.

Table No. 1 shows the interview station numbers, their locations, the hours that they were operated, the number of outbound vehicles passing these stations, the numbers and percentages of these vehicles that were interviewed and the percentage of trucks, including panels and pickups.



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXHIBIT 2

TABLE NO. I

OUTBOUND TRAFFIC AT EXTERNAL STATIONS

STATION NUMBER	HIGHWAY	HOURS	VEHICLES COUNTED	VEHICLES INTERVIEWED NUMBER	VEHICLES INTERVIEWED PERCENT	PERCENT TRUCKS
1	Watson-Coulee Road	Station not operated				
2	County Road	"	"	"		
3	Bootlegger Trail	6a-10p	108	65	60.2	42.6
4	US 87 N.	6a-10p	760	702	92.4	22.6
5	FAS 495	6a-10p	70	68	97.1	17.1
6	US 87 & 89 E.	6a-10p	1721	1505	87.4	25.7
7	Ext. of 26th St.	6a-10p	225	170	75.6	24.4
8	FAS 459	6a-10p	529	420	79.4	22.1
9	County Road	6a-10p	73	55	75.3	19.2
10	FAS 226	6a-10p	873	798	91.4	16.2
11	Fox Farm Road	Station not operated				
12	Flood Road	"	"	"		
13	US 91 S.	6a-10p	2291	1909	83.3	19.9
14	Sun River Road	6a-10p	134	107	79.9	26.9
15	US 89 & 91	6a-10p	1947	1688	86.7	28.1
	TOTAL OUTBOUND	6a-10p	8731	7487	85.8	23.4

The following table shows similar data for inbound traffic at the same stations:

TABLE NO. 2

INBOUND TRAFFIC AT EXTERNAL STATIONS

STATION NUMBER	HIGHWAY	HOURS	VEHICLES COUNTED	VEHICLES INTERVIEWED NUMBER	VEHICLES INTERVIEWED PERCENT	PERCENT TRUCKS
1	Watson Coulee Road		Station not operated			
2	County Road		" " "			
3	Bootlegger Trail	6a-10p	118	88	74.6	35.6
4	US 87 N.	6a-10p	730	655	89.7	20.1
5	FAS 495	6a-10p	56	53	94.6	14.3
6	US 87 & 89 E.	6a-10p	1640	1388	84.6	25.9
7	Ext. of 26th St.	6a-10p	219	173	79.0	22.8
8	FAS 459	6a-10p	536	425	79.3	19.8
9	County Road	6a-10p	66	54	81.8	12.1
10	FAS 226	6a-10p	679	601	88.5	20.0
11	Fox Farm Road		Station not operated			
12	Flood Road		" " "			
13	US 91 S.	6a-10p	2567	1919	74.8	16.2
14	Sun River Road	6a-10p	133	112	84.2	28.6
15	US 89 & 91	6a-10p	1800	1471	81.7	28.6
	TOTAL INBOUND	6a-10p	8544	6939	81.2	22.1

Such items as the origin and destination of the trip, purpose of the trip, number of persons in the vehicle and the place where the vehicle was garaged were obtained on all interviews. In addition, the route of exit or entrance to the survey area, any intermediate stop and the purpose of the stop were obtained on through trips having both and origin and destination outside the cordon line.

A sample of the external interview form is shown in Exhibit 3 on page 22.

Internal Origin and Destination Survey

In order to obtain complete coverage of all travel, it was necessary to survey and analyse all types of trips which began and ended within the internal metropolitan area of Great Falls. This travel was missed in the external roadside interviews which were conducted at stations located on the cordon line.

The internal survey was divided into two main parts, the Dwelling Unit Survey and the Internal Truck and Taxi Survey. Commercial bus service had been discontinued in Great Falls for some time before the survey started.

All of the techniques used in these surveys and described in this section were developed or approved by the Bureau of Public Roads. They are described in detail in the Manual of Procedures for Home Interview Traffic Studies. These basic procedures have been successfully used in numerous cities throughout the nation.

Internal Dwelling Unit Survey

Basic procedures for this survey consist of selecting a representative sample of all dwelling units within the internal area. The occupants of the sample dwelling units are then interviewed to obtain the desired information concerning occupants, vehicles and travel. Standard sampling rates have been established for cities of various population groups to provide accurate travel data for the entire urban area. The recommended size of the sample in cities comparable to Great Falls was within the range of

METROPOLITAN AREA TRAFFIC SURVEY
EXTERNAL TRIP REPORT

Card Number [3] Station _ _ _ _ _ _ _ Date _ _ _ _ Hour Period Beginning _ _ _ AM PM Inbound 1 Outbound 2

1	2	3	4	5	6	7	8	9		10	
Serial Number	Vehicle Type	No. in Vehicle	Where did This Trip Begin?	Where Will This Trip End?	Trip Purpose	Where is Car Owned or Garaged	Route Exit or Entrance	Intermediate Stop		Exp. Factor	
								Location	Purpose	Hour	24 Hour
								Ask-of Thru Trips Only			
						In Area 1 Out Area 2					
						In Area 1 Out Area 2					
						In Area 1 Out Area 2					
						In Area 1 Out Area 2					
						In Area 1 Out Area 2					
						In Area 1 Out Area 2					

1. Passenger Car Local
2. Passenger Car Foreign
3. Pick-up or Panel
4. 2-Axle, Single Tire
5. 2-Axle, Dual Tire
6. 3-Axle, Single Unit
7. Combinations
8. Taxi
9. Bus

1. Work
2. Business
3. Med.-Dental
4. School
5. Social & Rec
6. Change mode of Travel
7. Eat Meal
8. Shopping
9. Serve Passenger

1. Work or Business
2. Shopping
3. Recreation
4. Serve Pass
5. Eat Meal
6. Gas or Oil
7. Overnight

EXHIBIT 3

one dwelling unit in five to one dwelling unit in eight. The final sample selected was composed of every sixth dwelling unit within the entire internal area.

The accuracy of the sample selection depends upon how accurately a complete listing of all dwelling units can be compiled. Sanborn map coverage, an up-to-date city directory and enlarged aerial photography of the area were all used extensively to compile the original listing. All of these sources were supplemented by extensive field checks, particularly in those areas not covered by the Sanborn maps. Census block statistics for 1960 were used as a general check on the number of dwellings found in 1961. The construction of a Minute Man Missile complex around Great-Falls in 1961 caused an influx of persons into the urban area, after the 1960 Census was taken. Checks on residential construction and trailer house permits were therefore made at intervals during the survey period to make certain that these dwellings would be included in the universe from which the dwelling unit sample was drawn.

Personnel selected for the interviewing were principally women and some had previous experience in interviewing with the U.S. Bureau of Census. They were schooled in the techniques of the home interview survey and were closely supervised throughout this phase. Home interviewing began in July of 1961 and was completed in October of 1961.

A summary of the dwelling unit interviewing phase of the Origin and Destination Survey is as follows:

DWELLING UNITS				
TOTAL COUNTED	NO. SELECTED	COMPLETED INTERVIEWS	NO CONTACT OR VACANT	SICKNESS OR REFUSALS
23,815	3,572	3,300	169	103

The occupants of dwelling units selected for interviews were ordinarily alerted by mail a few days in advance of the actual interview date. They were then contacted by an interviewer to obtain information concerning all trips made on the previous weekday by all members of the household of 5 years of age and older. Interviews were conducted from Tuesday through Saturday in order to obtain all trips made on the previous weekday from Monday through Friday. A trip was defined for this study as the one-way travel from one point to another for a particular purpose.

The following items of information were obtained for each trip:

1. Origin and destination
2. Arrival and departure times
3. Purpose of trip
4. Mode of travel
5. Land use at both origin and destination
6. Number in vehicle and type of parking used

The following data were also obtained for each dwelling unit that was sampled:

1. Type of dwelling unit
2. Number of passenger cars
3. Number and age of occupants
4. Length of time head of household has lived at the address
5. Occupation and industry of occupants over 15 years of age
6. Number of trips reported from this dwelling unit

Exhibits 4 and 5 on pages 26 and 27 show the field forms that were used for both the dwelling unit summary and the internal trip report.

Internal Truck Survey

In order to obtain accuracy comparable to the dwelling unit survey, it was considered necessary to increase the size of the truck sample due to the smaller size of the vehicle universe. Accordingly, one in three trucks was selected for an interview from a 1961 listing of trucks registered in the survey area.

As in the dwelling unit survey, trained interviewers contacted the truck owners and obtained a log of the previous weekday's travel. Data obtained in this phase of the survey included make and model of the vehicle, origin and destination of all trips, midpoint time of each trip, commodity carried and the industry served.

A total was obtained of 1,136 completed truck interviews from a selected sample of 1,517 vehicles. There were 208 trucks in the selected sample that were either garaged outside the cordon, were junked, wrecked or out of service for repairs. Another 173 trucks were found to be registered in the area but were either operated continuously outside the cordon or the owner could not be located for an interview.

Taxi Survey

Due to the relatively small number of taxis in Great Falls, trip data were obtained on all 23 units operating at the time of the survey. Through the cooperation of the taxi owners, the previous weekday's trips were obtained from the trip manifests which were kept by each driver. Origin and destination data and midpoint time were obtained for each trip.

FORM 1-4A
(7-28-60)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

GREAT FALLS METROPOLITAN AREA TRANSPORTATION STUDY, 19__

DWELLING UNIT SUMMARY

Card 1
County or City
Tract No.
Block No.
Sample No.
Subzone No.
Month and Day

Preceding number
Interview address
Succeeding number

Date of travel
Month Date Day of Week

Structure Type:
1. Single - Detached
2. Single - Attached
3. 2-4 Apartments
4. 5-19 Apartments
5. 20 or more Apartments
6. Rooming House, Dormitory
7. Hotel
8. Motel
9. Rest Home, Inst.
0. Other (Specify)

A. How many passenger cars are owned by persons living at this address? (Include Company-owned Cars)

B. How many persons live here?

C. How many are 5 years of age or older?

D. Household information:

Race

How long has Head-of Household lived at this address?

Person No.	✓ if interviewed	Sex and Race	Person Identification	Code	Occupation and Industry	Trips Yes	Trips No
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
91-99			Visitors (with trips)				

E. Number of trips reported at this address: All trips ..... Auto Driver trips

F. Number of persons 5 years of age or older making trips

G. Number of persons 5 years of age or older making no trips

H. Number of persons 5 years of age or older with trips unknown

I. Factor

Phone No.

Administrative Record

Interviewer

CALLS

	DATE	TIME
(1)		
(2)		
(3)		
(4)		

REPORT SUBMITTED INCOMPLETE

Date

Reason

Supervisor's comment

Remarks

Report completed (Date) (Initial)

Interviews checked (Initial)

Coded by (Initial)

Coding Checked by (Initial)

USCOMM-DC 48100-P(

EXHIBIT 4

INTERNAL TRIP REPORT

SHEET OF

CARD 2 | COUNTY OR CITY | TRACT | BLOCK | SAMPLE NO. | SUBZONE | MONTH AND DAY OF TRAVEL

1	2	3	4	5	6	7	8		9	10	11	12	13
Occupation and industry	Person No.	Trip No.	Sex and race	Where did this trip begin? *(Origin)*	Where did this trip end? *(Destination)*	Mode of travel	Time of— Starting	Time of— Arrival	Purpose of trip (From / To)	Land use at	Car pool	No. in car including driver	Kind of parking
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2 Pers. business.. 2 3.... Med.-Den.....3 4.. School ..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping..... 8 9.... Serve pass .....9 0.. Home..... 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage free 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2.. Pers. business.. 2 3.... Med.-Den..... 3 4.. School ..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping..... 8 9.... Serve pass.....9 0.. Home..... 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage free 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2.. Pers. business.. 2 3.... Med.-Den..... 3 4.. School ..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping ..... 8 9.... Serve pass.....9 0.. Home..... 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage free 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2.. Pers. business.. 2 3.... Med.-Den..... 3 4.. School..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping..... 8 9.... Serve pass.....9 0.. Home 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage fee 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2.. Pers. business.. 2 3.... Med.-Den..... 3 4.. School ..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping..... 8 9.... Serve pass.....9 0.. Home..... 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage fee 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked
			1 2 3 4 5 6	City	City	1 Auto driver 2 Auto pass. 3 Street-car-Bus 4 Taxi pass. 5 Truck pass. 6 Walk to work (1st)	A.M. P.M.	A.M. P.M.	1.... Work..... 1 2.. Pers. business.. 2 3.... Med.-Den..... 3 4.. School ..... 4 5.... Social. rec.....5 6.. Ch. travel mode.. 6 7.... Eat meal..... 7 8.. Shopping..... 8 9.... Serve pass.....9 0.. Home..... 0	Origin Dest.	1 Yes 2 No		1 Street free 2 Street meter 3 Lot free 4 Lot paid 5 Garage fee 6 Garage paid 7 Service or repairs 8 Res. property 9 Cruised 0 Not parked

EXHIBIT 5

USCOMM-DC 48100-P60

Form I-5

Sheet ___ of ___

GREAT FALLS
METROPOLITAN AREA TRAFFIC SURVEY
TRUCK REPORT

Card No. 4

Owner _____ Address _____ Sample No. ____

License No. _____ Make _____ Year of mfg. _____

Industry and Business _____

Type 3 Panel or Pick-up 4 Two Axle Single Tire 5 Two Axle Dual Tire 6 Three Axle Single 7 Combinations ____

Licensed Capacity (cwt) _____

Date of Travel _____ Day of Week _____

Total Number of Stops or Trips _____

Estimated Day's Mileage within Area _____

TRIP NO.	ORIGIN	DESTINATION	MID-POINT TIME	COMMODITY
			AM PM	
			AM PM	
			AM PM	
			AM PM	
			AM PM	
			AM PM	
			AM PM	
			AM PM	

DATE _____ INTERVIEWER _____

EXHIBIT 6

The format of the truck and taxi interview sheet is shown in Exhibit 6 on page 28.

ZONING AND TABULATING

In order to facilitate the various traffic analyses by grouping trips into significant travel patterns, the internal study area should be subdivided into segments. The internal area of Great Falls was therefore divided into sections, districts,zones and subzones in order to properly analyse the various traffic movements within and through the city.

SECTIONS

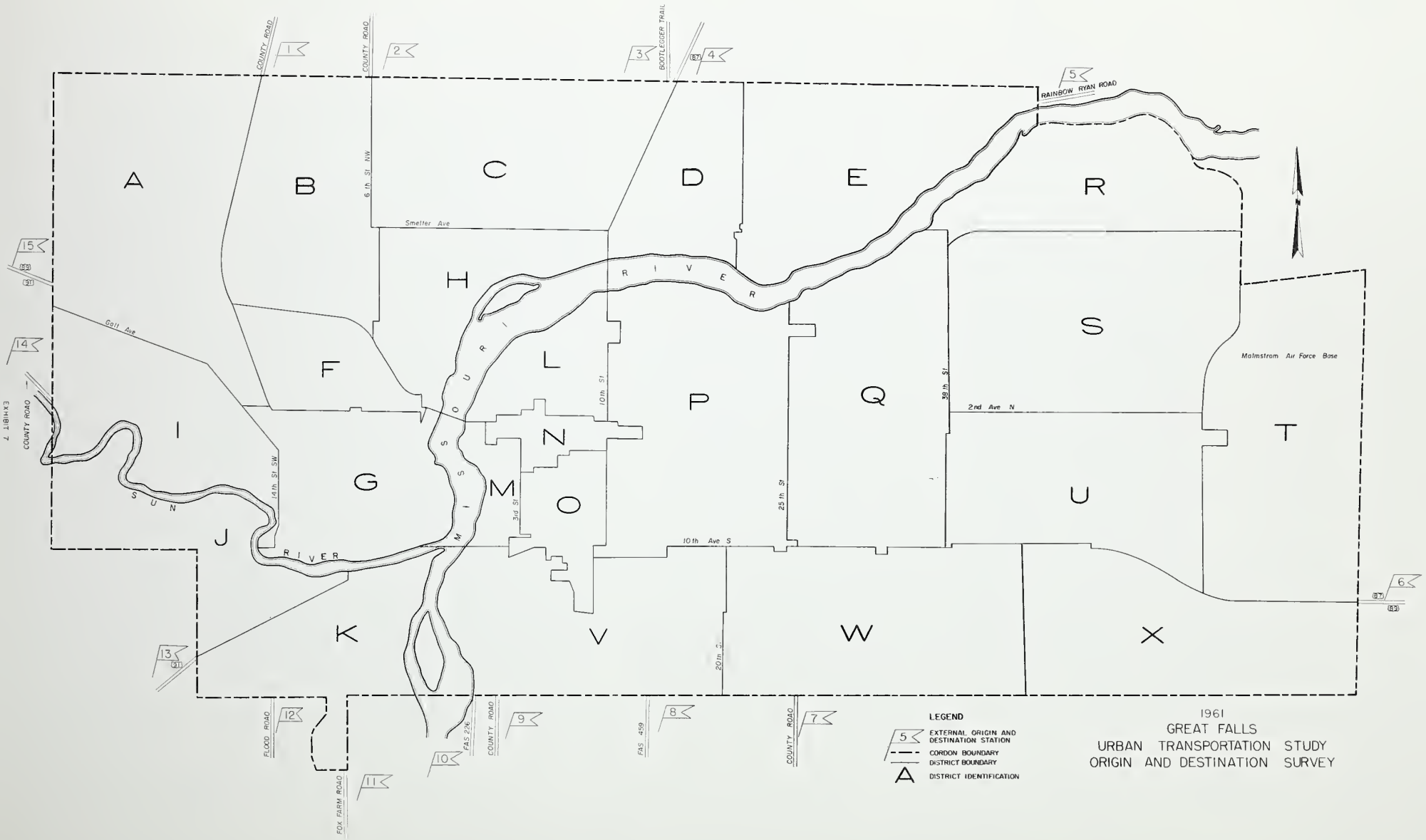
The Missouri River, as it flows through Great Falls, divides the study area into two sections located east and west of this natural barrier. Tabulations of origin and destination data between these two sections were used primarily to test the accuracy of the survey data by comparing the computed traffic volumes with ground counts taken at the three bridges crossing the river.

DISTRICTS

The two sections (east and west of the river) were subdivided into a total of 24 districts which correspond generally to the neighborhoods that had already been established by the City-County Planning Board. The 24 districts have been designated alphabetically by the letters "A" through "X" as shown in Exhibit 7 on page 30. The first two digits of the zone code have also been used to identify districts numerically. District subdivisions have been used exclusively to illustrate desire lines of travel within and through the internal study area.

ZONES

Each of the 24 districts has been divided into from 2 to 14 zones


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
A
B
C
D
E
R
S
T
U
X
W
V
K
J
I
G
F
H
L
N
M
O
P
Q
SUN RIVER
MISSOURI RIVER
RAINBOW RYAN ROAD
BOOTLEGGER TRAIL
COUNTY ROAD
6th St NW
Smelter Ave
Gall Ave
14th St SW
10th St
3rd St
25th St
39th St
2nd Ave N
10th Ave S
20th St
Malmstrom Air Force Base
EXHIBIT 7
FLOOD ROAD
FOX FARM ROAD
FAS 226
FAS 459

depending upon general land use characteristics, present population and distance from the Central Business District. The 100 zones thus obtained in the internal area have been numbered consecutively within each district as shown on Exhibit 2 on page 18. Zone boundaries generally coincide with census tract boundaries to facilitate future projection of population and travel data.

Montana's Standard City and Place Code was used in coding external trips having an origin or destination outside the survey area but within the state. This four digit code designates the county as well as the city or place in Montana. Out-of-state trips were coded to the highway and place where the trip entered or left the state.

Zones were used as the basic unit in compiling all trip tables showing the movement of vehicles and persons. These tabulations may be found on pages 128 to 155 in the appendix.

SUBZONES

The smallest division of the internal area was the subzone. These areas correspond generally to city blocks, but in some instances blocks were again subdivided if the land use characteristics warranted further division. Subzones are to be used in relating trips to land use and in special analyses of shopping centers, etc.. They have been identified by the tract and block number used by the Census Bureau in their block statistics of Great Falls.

TABULATION OF DATA

After the interviewing was completed, data from the various origin and destination surveys were assigned numerical codes which were punched into IBM cards. These data were then summarized into various sequences

to provide a series of tables describing the area's travel patterns and some characteristics of the persons and vehicles generating this travel. These tables, which are located in the appendix of this report, may be grouped into the following six basic categories:

BASIC CATEGORY	TABLE DESIGNATION
1. Accuracy Checks	Group A
2. Dwelling Unit Statistics	Group B
3. Trip Purposes	Group B
4. Vehicle Occupancy	Group B
5. Vehicle and Person Movements	Groups C, D and E
6. Parking Characteristics	Group F

DWELLING UNIT EXPANSION

A sample composed of every sixth dwelling unit was the ultimate goal in the dwelling unit survey of internal travel. However, in order to compensate for interviews that were missed for various reasons it was necessary to apply the following formula to interviews in each Census tract.

$$\text{Expansion Factor} = \frac{A - (C \times \frac{A}{B})}{B - (C + D)}$$

Where

A = Total number of dwelling units counted in tract.

B = Total number of samples selected in tract.

C = Sum of sample dwelling units found to be vacant, demolished or used for commercial purposes only.

D = Sum of interviews missed because of contagious sickness in household, no one found at home after repeated calls, or residents refused to answer questions.

The following tabulation shows the values that were used in the formula to compute the expansion factor for each census tract.

DWELLING UNIT EXPANSION VALUES

Tract	A Number Dwellings Counted	B Number Samples Selected	C Number Dwellings Vacant etc.	D Number Interviews Missed	Computed Expansion Factor
A	5,615	864	52	17	6.6
B	3,747	635	28	3	5.9
C	7,445	1,095	64	71	7.3
D	4,956	708	23	12	7.1
X*	2,052	270	2	--	7.6
TOTAL	23,815	3,572	169	103	6.9

* Malmstrom Airbase

A sample composed of one-third of all trucks registered in the survey area amounted to 1,517 vehicles. The expansion factor for truck trips was computed by using the following formula.

$$\text{Truck Trip Factor} = \frac{J-(L \times \frac{J}{K})}{K-(L + M)}$$

Where

J = Total number of trucks registered in survey area.

K = Total number of samples selected.

L = Sum of sample trucks found to be junked, wrecked, out of service for repairs or owner found to be living outside the survey area.

M = Sum of truck interviews missed because truck was registered in survey area but used continuously elsewhere, truck was transferred to new owner residing outside the survey area, could not find owner or owner refused to answer questions.

Values used in the formula were as follows:

TRUCK TRIP EXPANSION VALUES

J Number Trucks Registered	K Number Samples Selected	L Number Junked Wrecked Etc.	M Number Missed For Various Reasons	Computed Factor
5,568	1,517	208	173	4.2

Due to the small number of taxicabs operating in Great Falls, all operators were interviewed. Travel data were obtained from the trip manifests of 23 taxicabs that were operating in the area during the survey. These 23 taxis made a total of 2230 trips, or an average of 97 trips per vehicle, during an average weekday in 1961.

ACCURACY CHECKS

In order to gain some knowledge as to the accuracy of the survey, a screenline was established through the internal survey area along the Missouri River. Traffic using the three bridges over the Missouri River was counted and classified once each month during the interviewing period. These hourly counts were then averaged to obtain a representative "ground count".

After the sample origin and destination data from all surveys were expanded to an average weekday, those trips crossing the river were then compared by hours to the "ground count". In the first comparison, 88 percent of the total river crossings were accounted for by the trips obtained from the expanded origin and destination studies. See Exhibits No. 8 and 9 on pages 35 and 36 . In this initial comparison, the basic internal origin and destination data had been expanded by using a uniform dwelling unit factor for all passenger car trips within each census tract. This factor varied from 5.9 to 7.6 depending upon the final computed sampling rate.

In studies of this type, it has been assumed that the dwelling unit

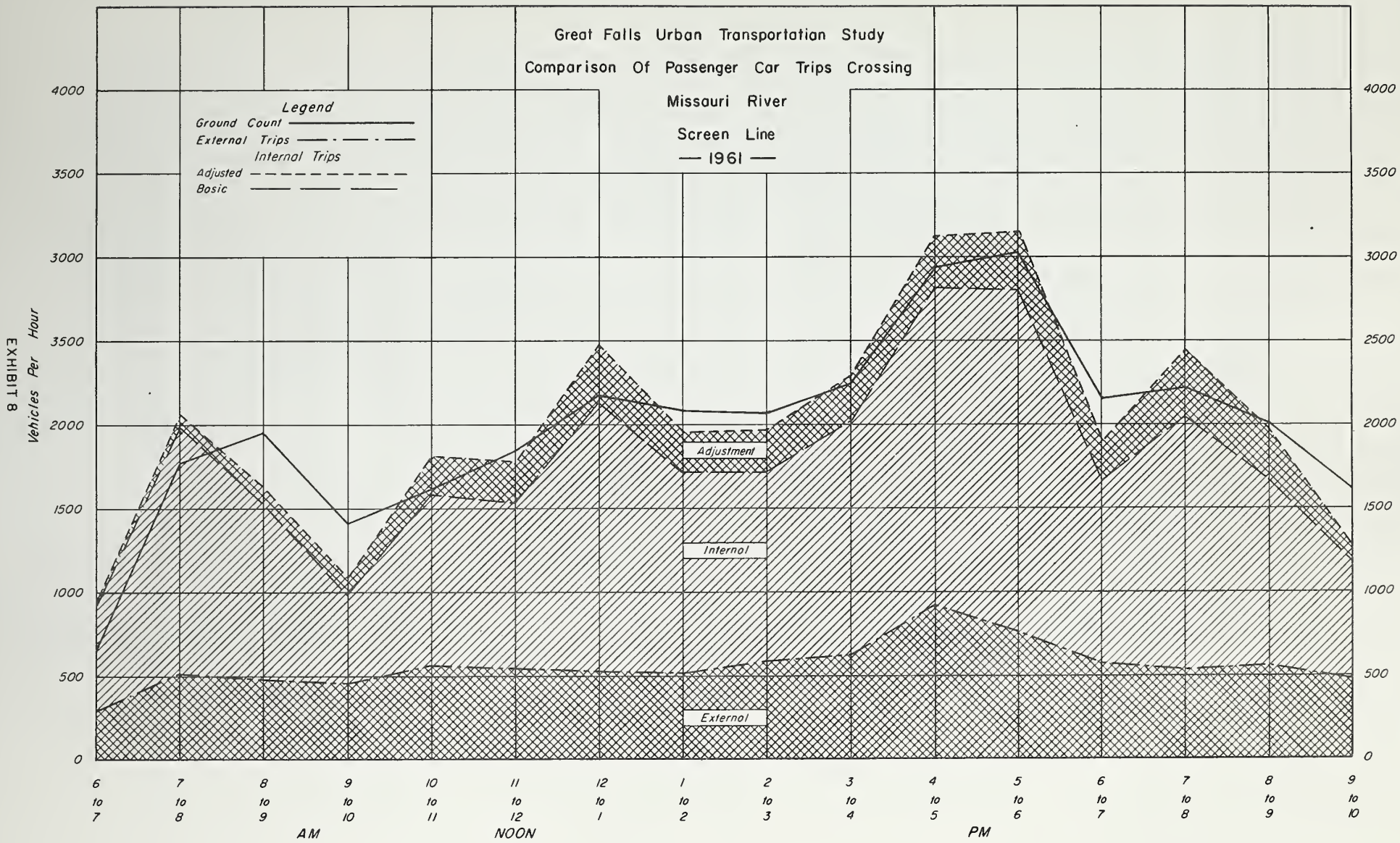

Great Falls Urban Transportation Study
Comparison Of Passenger Car Trips Crossing
Missouri River
Screen Line
— 1961 —
Legend
Ground Count
External Trips
Internal Trips
Adjusted
Basic
Adjustment
Internal
External
Vehicles Per Hour
4000
3500
3000
3500
2000
1500
1000
500
0
4000
3500
3000
2500
2000
1500
1000
500
0
6 to 7
7 to 8
8 to 9
9 to 10
10 to 11
11 to 12
12 to 1
1 to 2
2 to 3
3 to 4
4 to 5
5 to 6
6 to 7
7 to 8
8 to 9
9 to 10
AM
NOON
PM

EXHIBIT 8

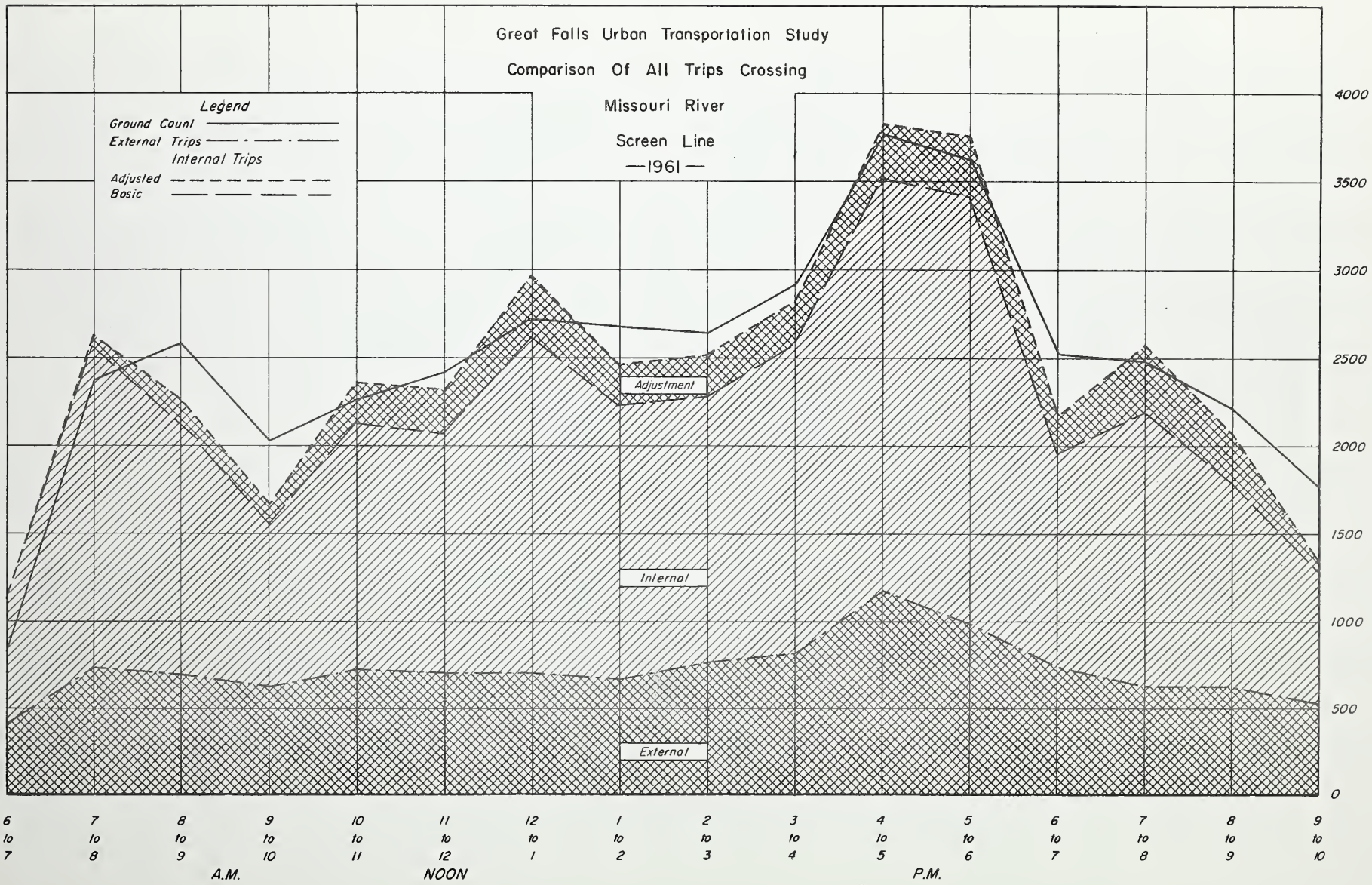

Great Falls Urban Transportation Study
Comparison Of All Trips Crossing
Missouri River
Screen Line
—1961—
Legend
Ground Count
External Trips
Internal Trips
Adjusted
Basic
Adjustment
Internal
External
Vehicles Per Hour
0
500
1000
1500
2000
2500
3000
3500
4000
6 to 7
7 to 8
8 to 9
9 to 10
10 to 11
11 to 12
12 to 1
1 to 2
2 to 3
3 to 4
4 to 5
5 to 6
6 to 7
7 to 8
8 to 9
9 to 10
A.M.
NOON
P.M.

EXHIBIT 9

occupants can remember the essential trips, such as work trips, completed on the previous day more readily than trips made for other purposes. Accordingly the nonwork, passenger car trips were increased 30 percent to obtain a closer final screenline comparison. Trips made by passenger cars to and from work and all trips made by trucks and taxis were not increased over the original sample expansion.

In the final comparison, expanded origin and destination trips made by all vehicles crossing the river accounted for 98 percent of the "ground count" between the hours of 6 a.m. and 10 p.m.. The screenline comparison is shown in detail by hours and vehicle type in tables A-1 to A-4 in the appendix. It is summarized for the 16-hour period in the following tabulation:

HOUR PERIOD	VEHICLE TYPE	O & D SURVEYS	GROUND COUNT	PERCENT OF GROUND COUNT
6 a - 10 p	Pass. cars	31,875	31,764	100.3
6 a - 10 p	Trucks	6,738	7,675	87.8
6 a - 10 p	Taxis	298	351	84.9
6 a - 10 p	All Vehicles	38,911	39,790	97.8

DESIRE LINES OF TRAVEL

Exhibits 10 through 31, pages 43 to 85, illustrate the distribution of external travel between each external station and the various internal districts during an average weekday in 1961. Truck travel has been shown separately for each station. Traffic patterns are represented by straight-line flow bands, plotted to scale between each external station and district centroid. The exact numerical volume of travel has also been shown near the termini of each desire line.

Exhibit 32 on page 87, illustrates the flow of through, nonstop travel between all external stations. A total of 932 vehicles, comprising 4.5 percent of the total external volume, did not stop in the internal study area.

Exhibit 33 on page 89, presents the combined movement of all vehicles between all external stations and internal districts exclusive of the Central Business District. A total of 15,725 trips, or about 76 percent of the total external travel, are shown by the flow bands on this chart.

A summary of external trips is shown in the following table.

EXTERNAL TRAVEL - ALL STATIONS - ALL VEHICLES

ORIGIN or DESTINATION	NO. TRIPS	PERCENT
Central Business District	4,059	19.6
East of Missouri River	11,399*	55.0
West of Missouri River	4,326	20.9
Other External Stations	932	4.5
TOTAL	20,716	100.0

* Exclusive of Central Business District

EXTERNAL TRAVEL - ALL STATIONS - TRUCKS INCLUDING PICKUPS AND PANELS

ORIGIN or DESTINATION	NO. TRIPS	PERCENT
Central Business District	748	15.6
East of Missouri River	2,509*	52.2
West of Missouri River	1,301	27.0
Other External Stations	252	5.2
TOTAL	4,810	100.0

* Exclusive of Central Business District

Exhibit 34 on page 91 illustrates the travel desire lines of both external and internal trips that had either an origin or destination within the Central Business District on an average day in 1961. A total of 51,055 trips in this category includes 4,059 from external stations, 42,687 from other internal districts and 4,309 from entirely within the Central Business District. These 51,055 trips amounted to 34 percent of a total of 152,053 trips within the study area.

Trips made by all vehicles between and within all districts except the Central Business District are presented in Exhibit 35 on page 93. In the interest of clarity, volumes of less than 75 vehicles are not plotted. Inter-district and intra-district trips, exclusive of the Central Business District, accounted for 64 percent of the internal travel on an average weekday in 1961.

A summary of both internal and external vehicle trips by type of vehicle is as follows:

Type of Vehicle	No. Trips	Percent of Total Trips
EXTERNAL TRAVEL		
Passenger Car	15,906	10.5
*Truck	4,810	3.1
Subtotal External	20,716	13.6
INTERNAL TRAVEL		
Passenger Car	109,689	72.1
*Truck	19,418	12.8
Taxi	2,230	1.5
Subtotal Internal	131,337	86.4
TOTAL TRIPS	152,053	100.0

ALL TRIPS COMBINED

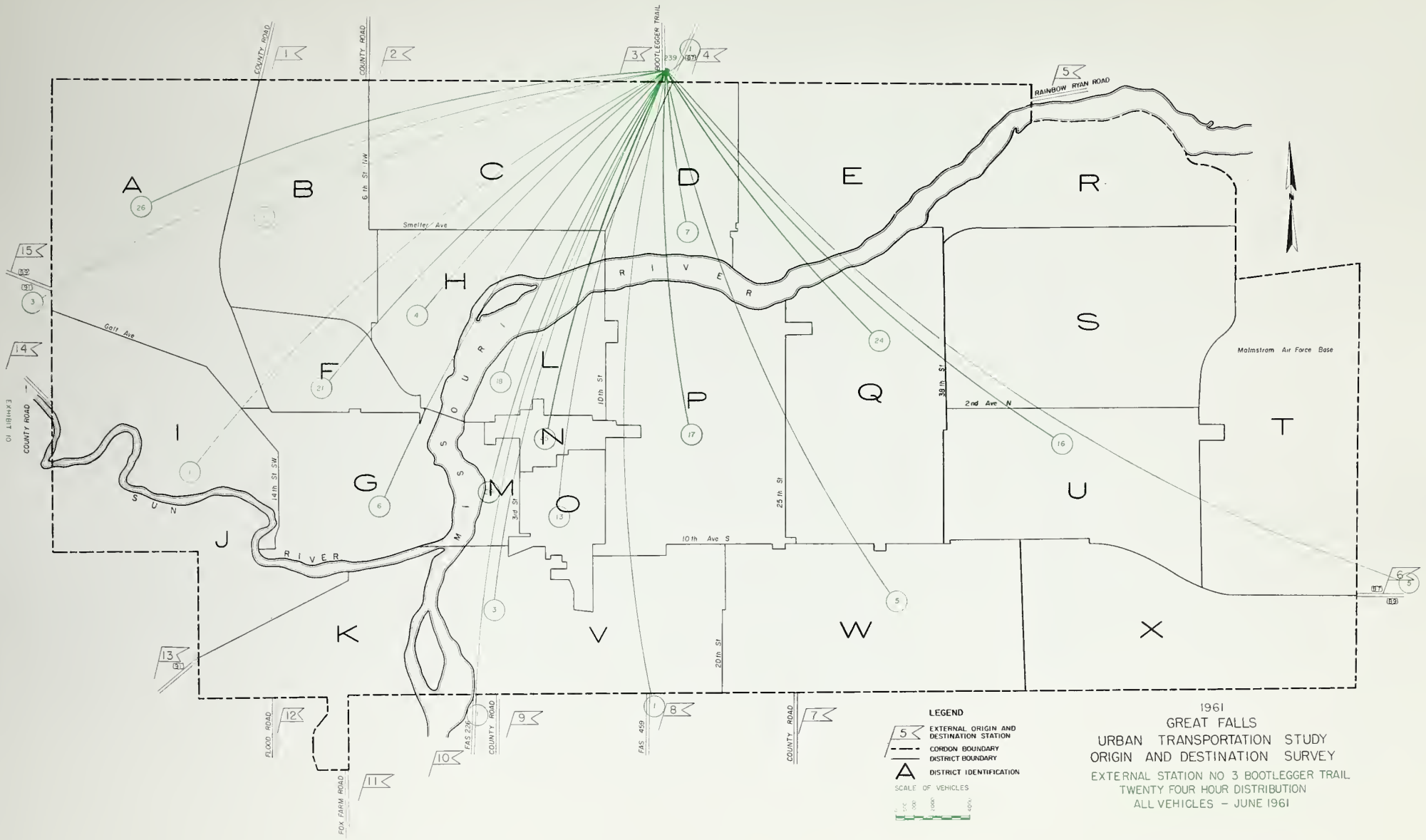
Type of Vehicle	No. Trips	Percent of Total Trips
Passenger Car	125,595	82.6
*Truck	24,228	15.9
Taxi	2,230	1.5
TOTAL	152,053	100.0

* Includes pickups and panels

Origin and Destination Charts

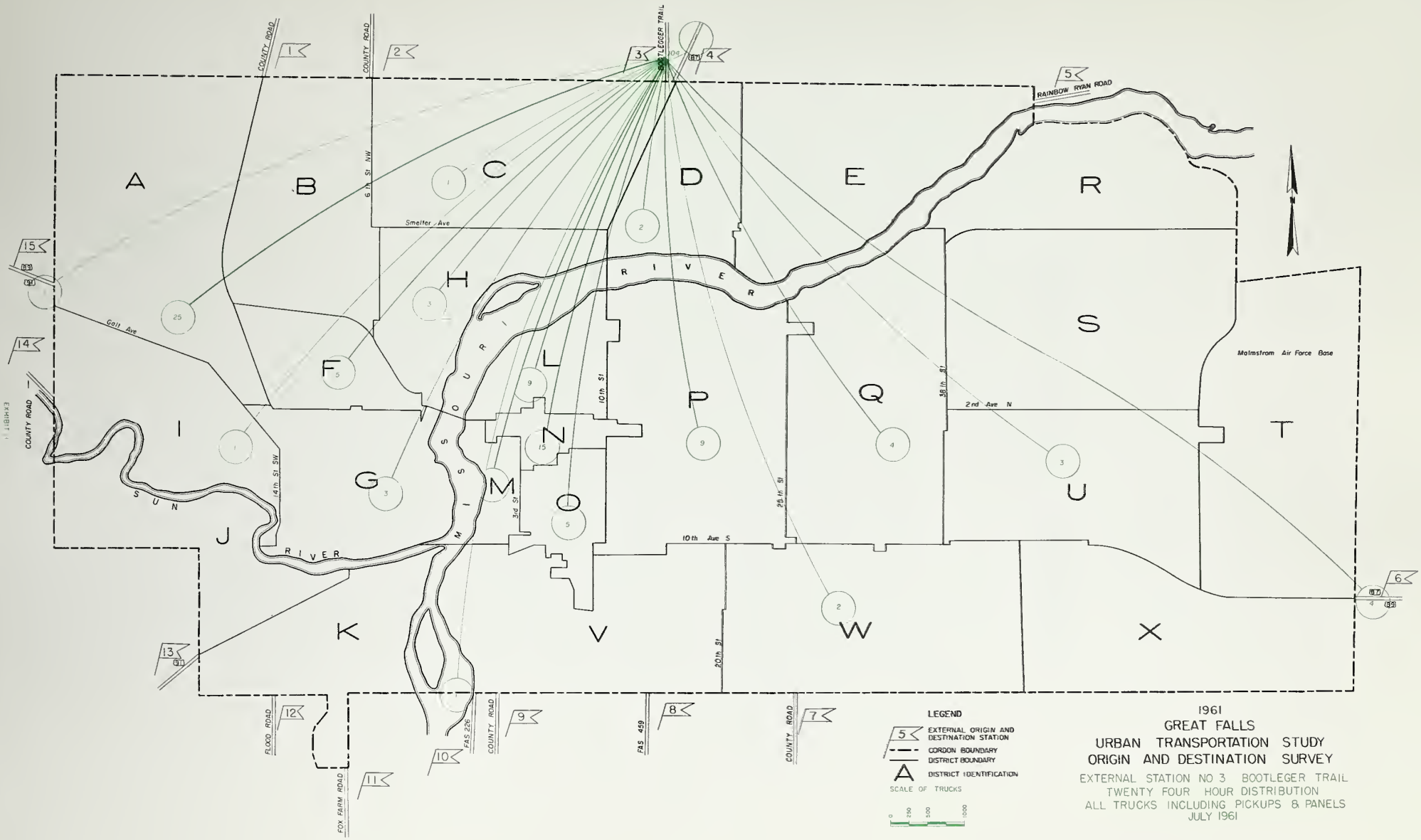
DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 3 ON BOOTLEGGER TRAIL

Total Traffic	239
Percent Through to Other Stations	4.6
Percent to Central Business District	18.8
Percent East of River, including Central Business District . .	67.4
Percent West of River	27.6


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 3 BOOTLEGGER TRAIL
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES – JUNE 1961
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
SCALE OF VEHICLES
BOOTLEGGER TRAIL
RAINBOW RYAN ROAD
COUNTY ROAD
6th St NW
Smelter Ave
Gore Ave
14th St SW
SUN RIVER
MISSOURI RIVER
3rd St
10th St
25th St
39th St
2nd Ave N
10th Ave S
20th St
Malmstrom Air Force Base
FLOOD ROAD
FOX FARM ROAD
FAS 226
FAS 459
EXHIBIT 10

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 3 ON BOOTLEGGER TRAIL

Total Traffic	104
Percent Through to Other Stations	6.7
Percent to Central Business District	14.4
Percent East of River, including Central Business District. .	54.8
Percent West of River	38.5



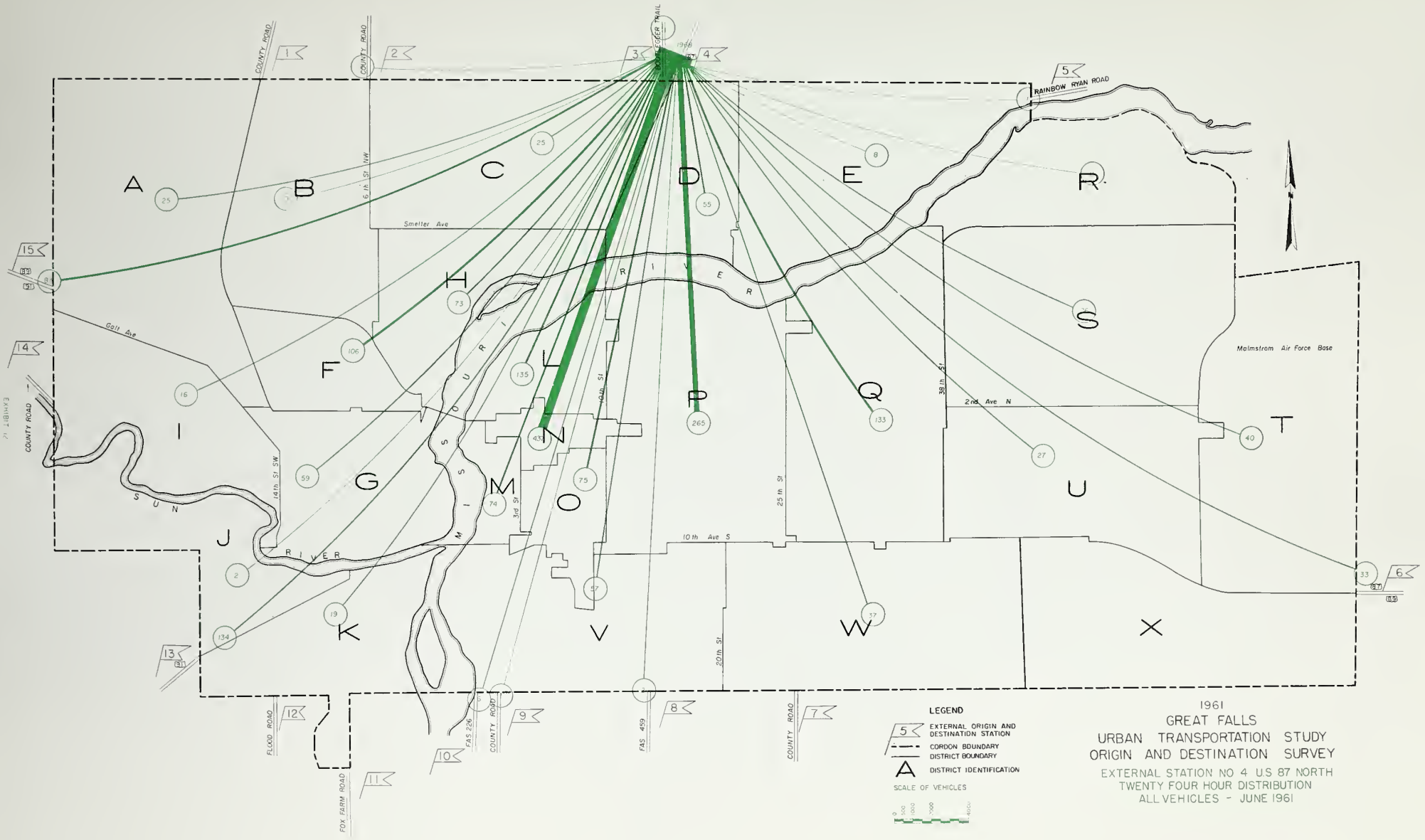
1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO 3 BOOTLEGER TRAIL
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JULY 1961

EXHIBIT 1

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 4 ON U.S. 87 NORTH

Total Traffic	1968
Percent Through to Other Stations	13.3
Percent to Central Business District	22.2
Percent East of River, including Central Business District . .	66.5
Percent West of River	20.2

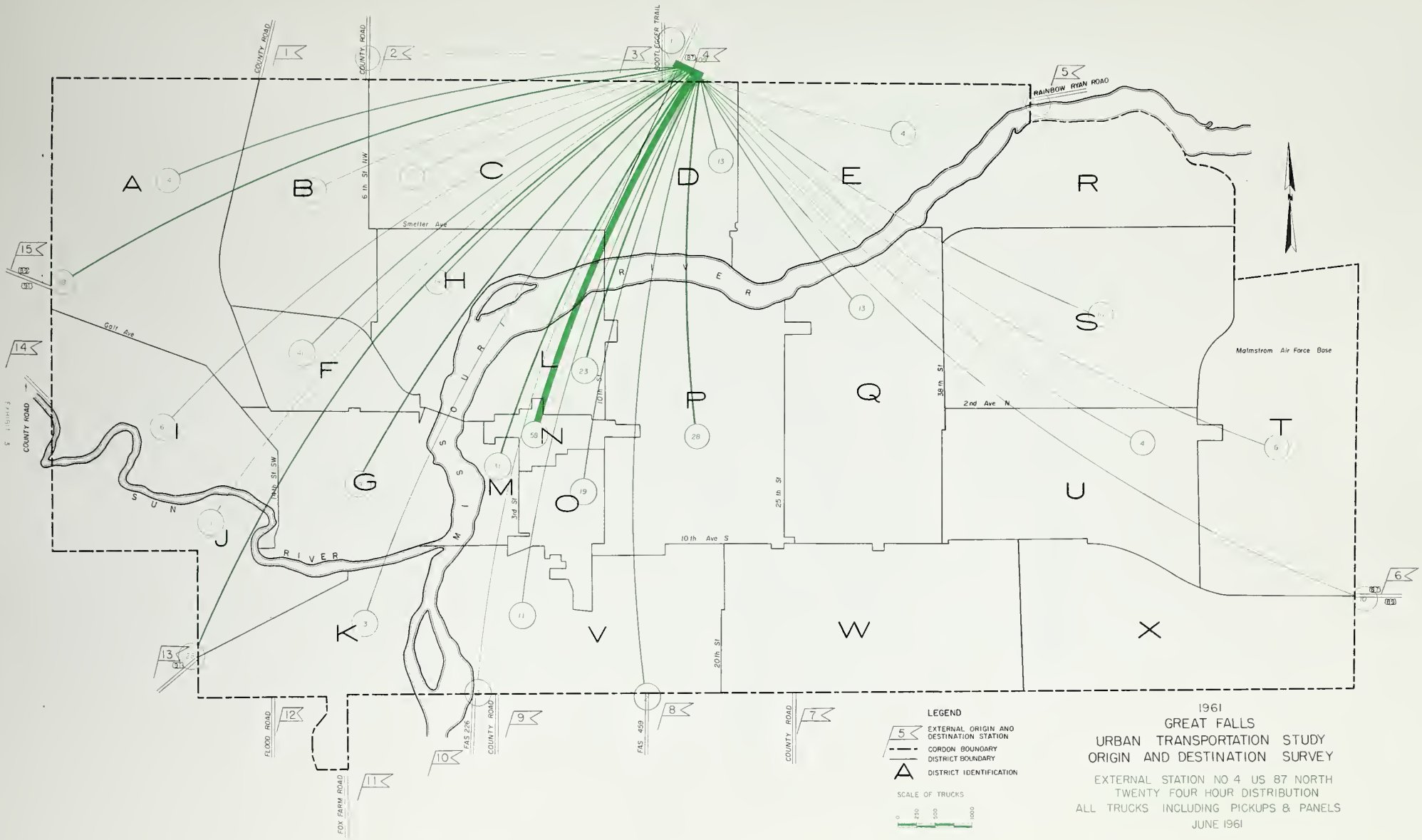


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 4 U.S 87 NORTH
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

EXHIBIT 12

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 4 ON U.S. 87 NORTH

Total Traffic	409
Percent Through to Other Stations	18.1
Percent to Central Business District	14.2
Percent East of River, including Central Business District. .	49.6
Percent West of River	32.3

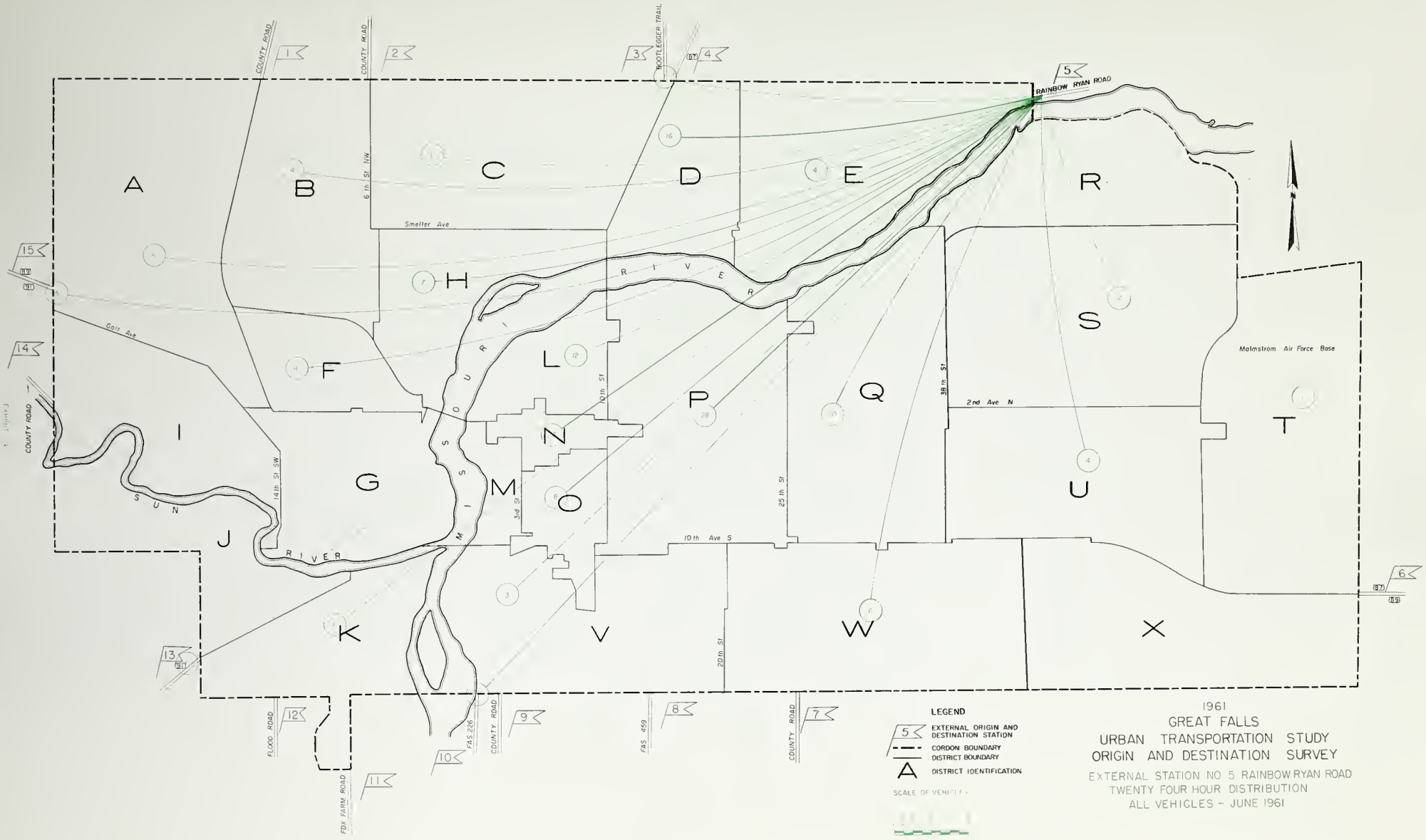


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO 4 US 87 NORTH
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 5 ON RAINBOW RYAN ROAD

Total Traffic	161
Percent Through to Other Stations	5.0
Percent to Central Business District	16.8
Percent East of River, including Central Business District .	68.9
Percent West of River	26.1

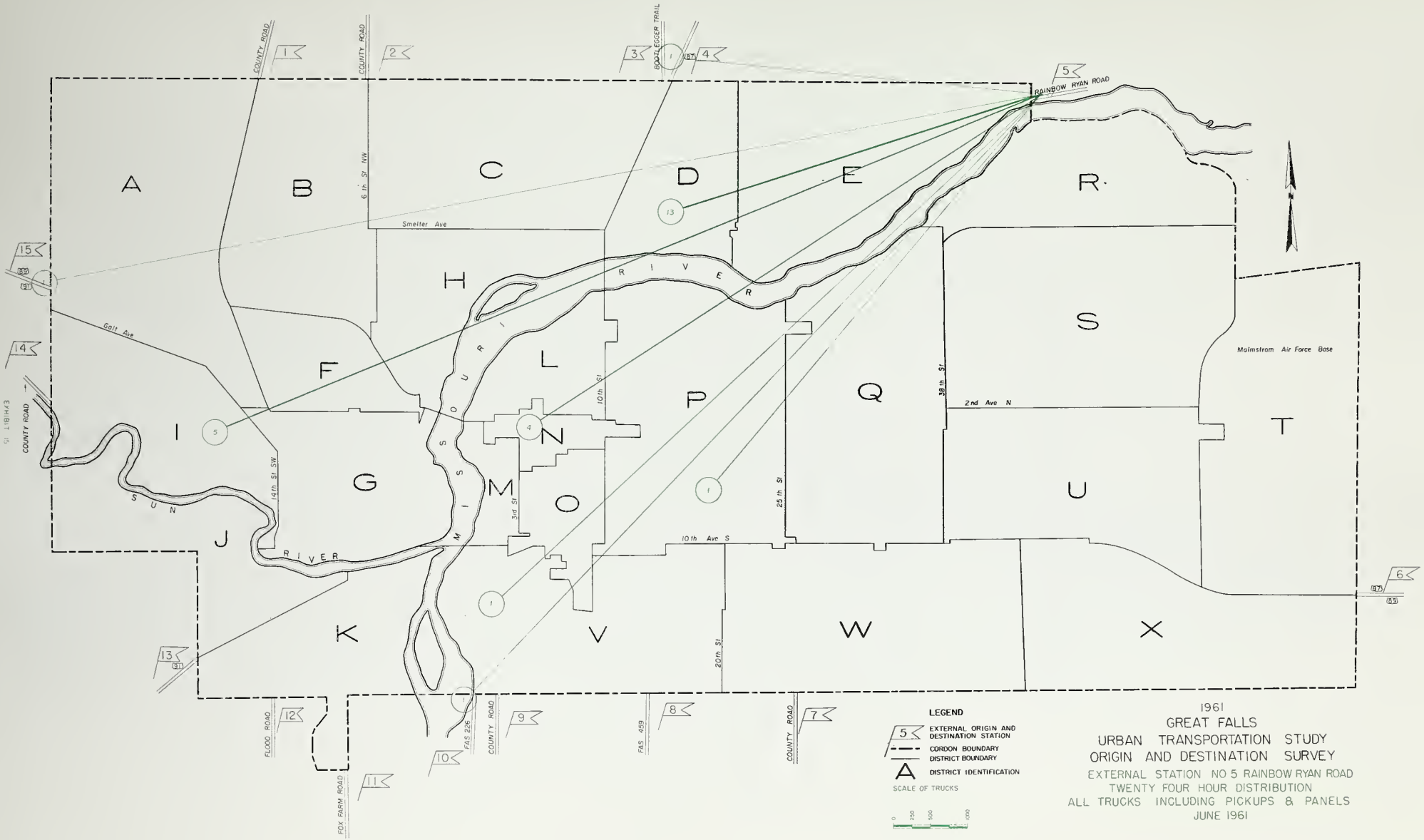


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO 5 RAINBOW RYAN ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 5 ON RAINBOW RYAN ROAD

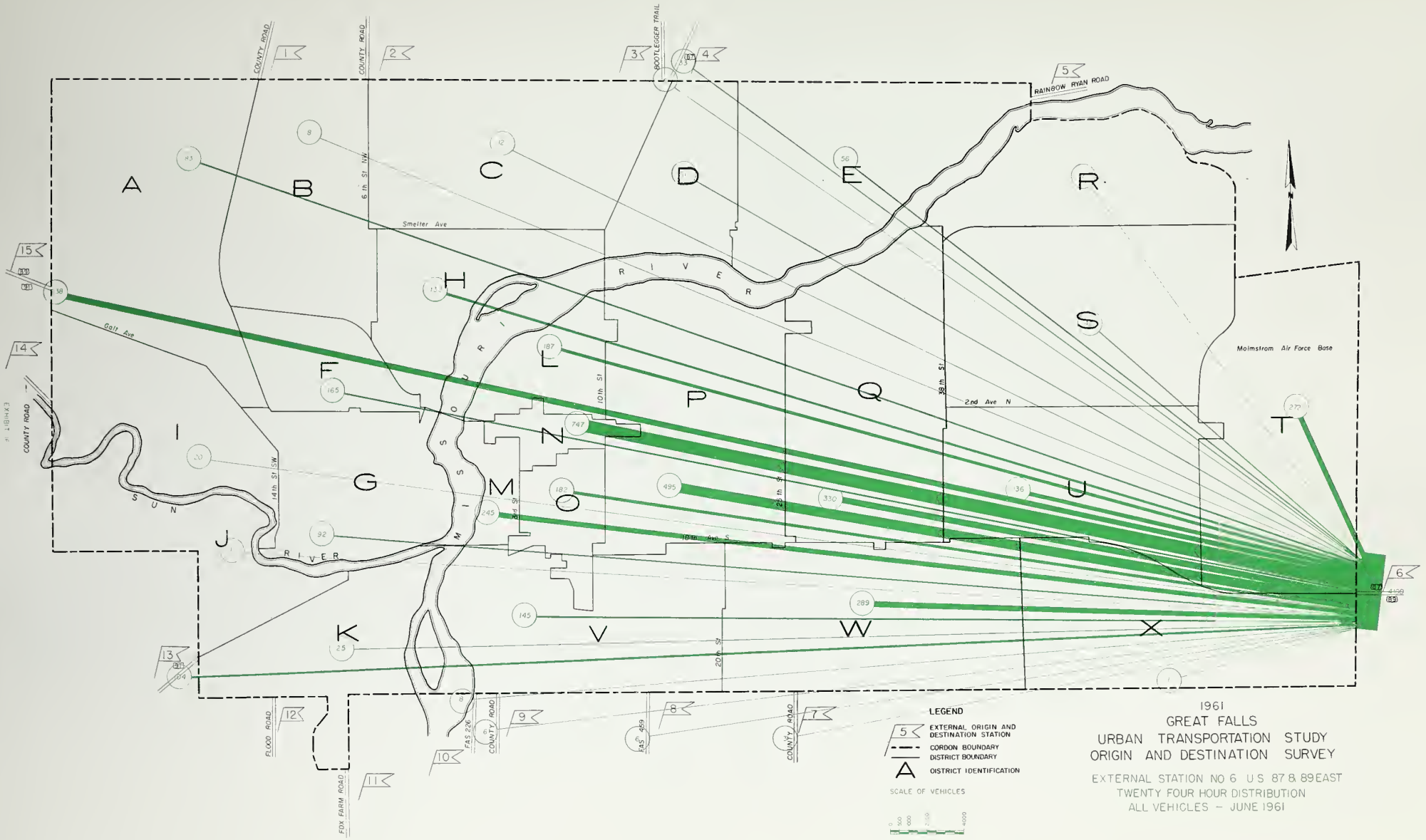
Total Traffic	27
Percent Through to Other Stations	11.1
Percent to Central Business District	14.8
Percent East of River, including Central Business District. .	22.2
Percent West of River	66.7



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 5 RAINBOW RYAN ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 6 ON U.S. 87 & 89 EAST

Total Traffic	4100
Percent Through to Other Station	9.8
Percent to Central Business District	18.2
Percent East of River, including Central Business District. .	74.9
Percent West of River	15.3

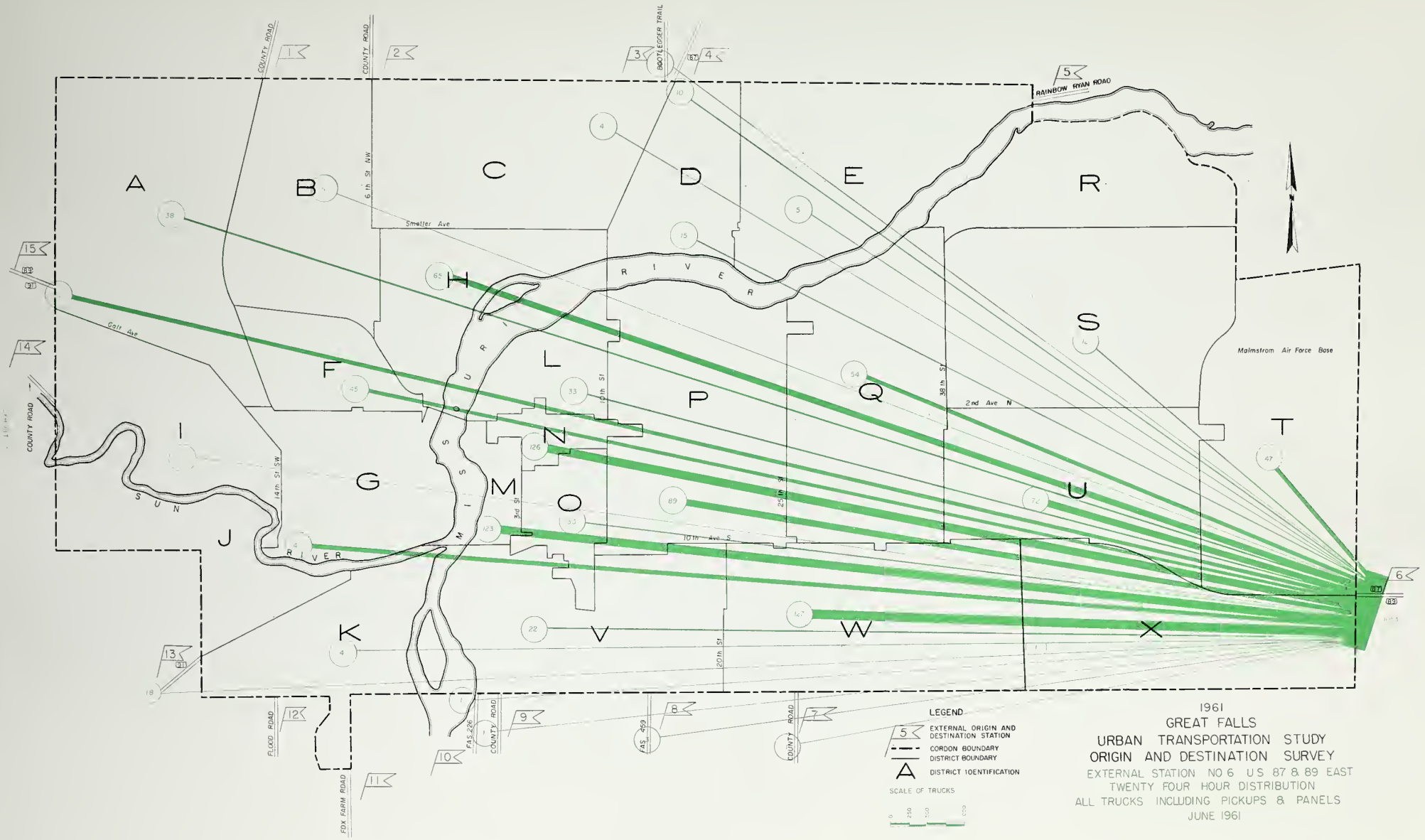


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO 6 U S 87 & 89 EAST
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES – JUNE 1961

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 6 ON U.S. 87 & 89 EAST

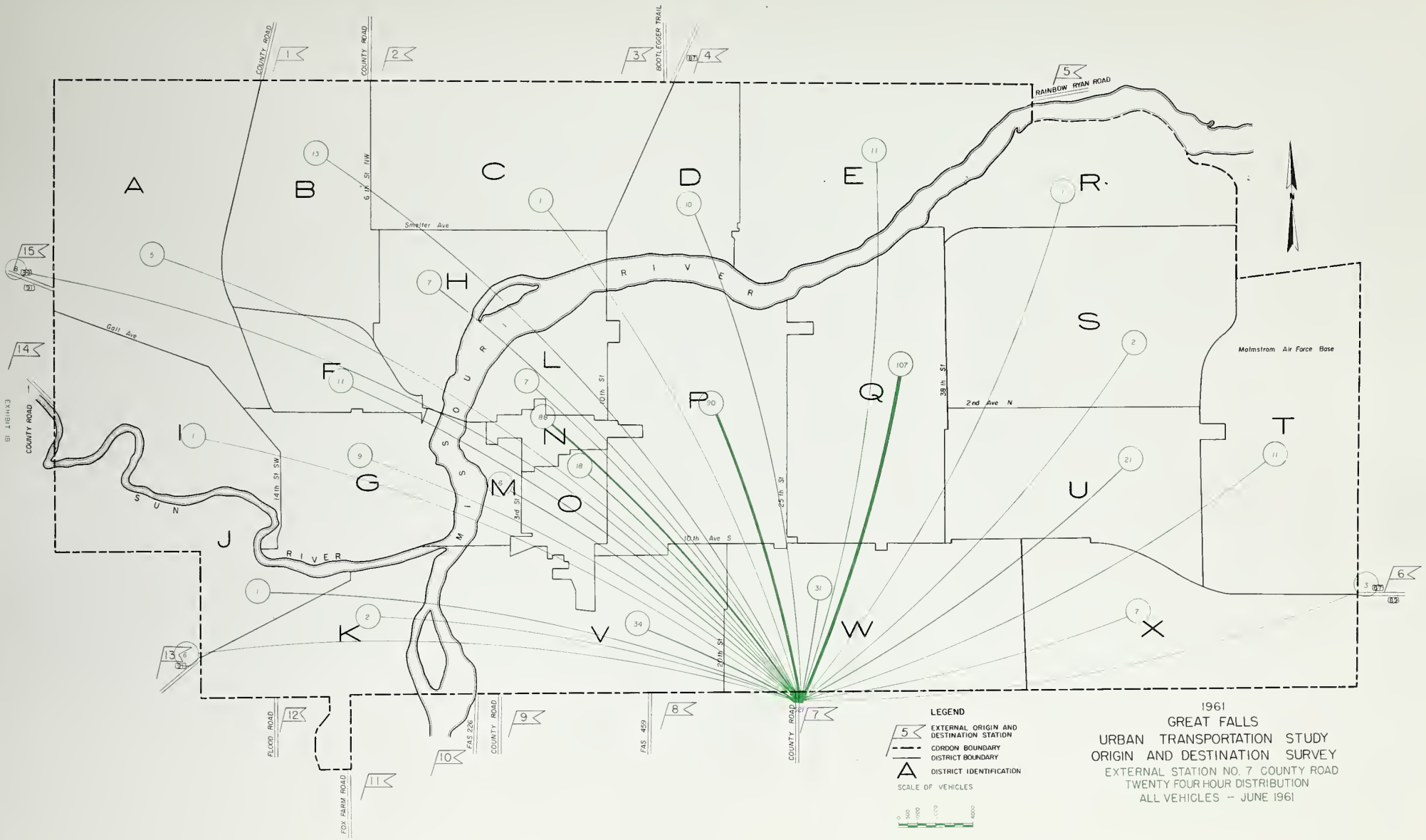
Total Traffic	1053
Percent Through to Other Stations	8.5
Percent to Central Business District.	12.0
Percent East of River, including Central Business District. .	70.2
Percent West of River	21.3



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 6 US 87 & 89 EAST
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 7 ON COUNTY ROAD

Total Traffic	521
Percent Through to Other Stations	3.3
Percent to Central Business District	16.9
Percent East of River, including Central Business District. .	83.1
Percent West of River	13.6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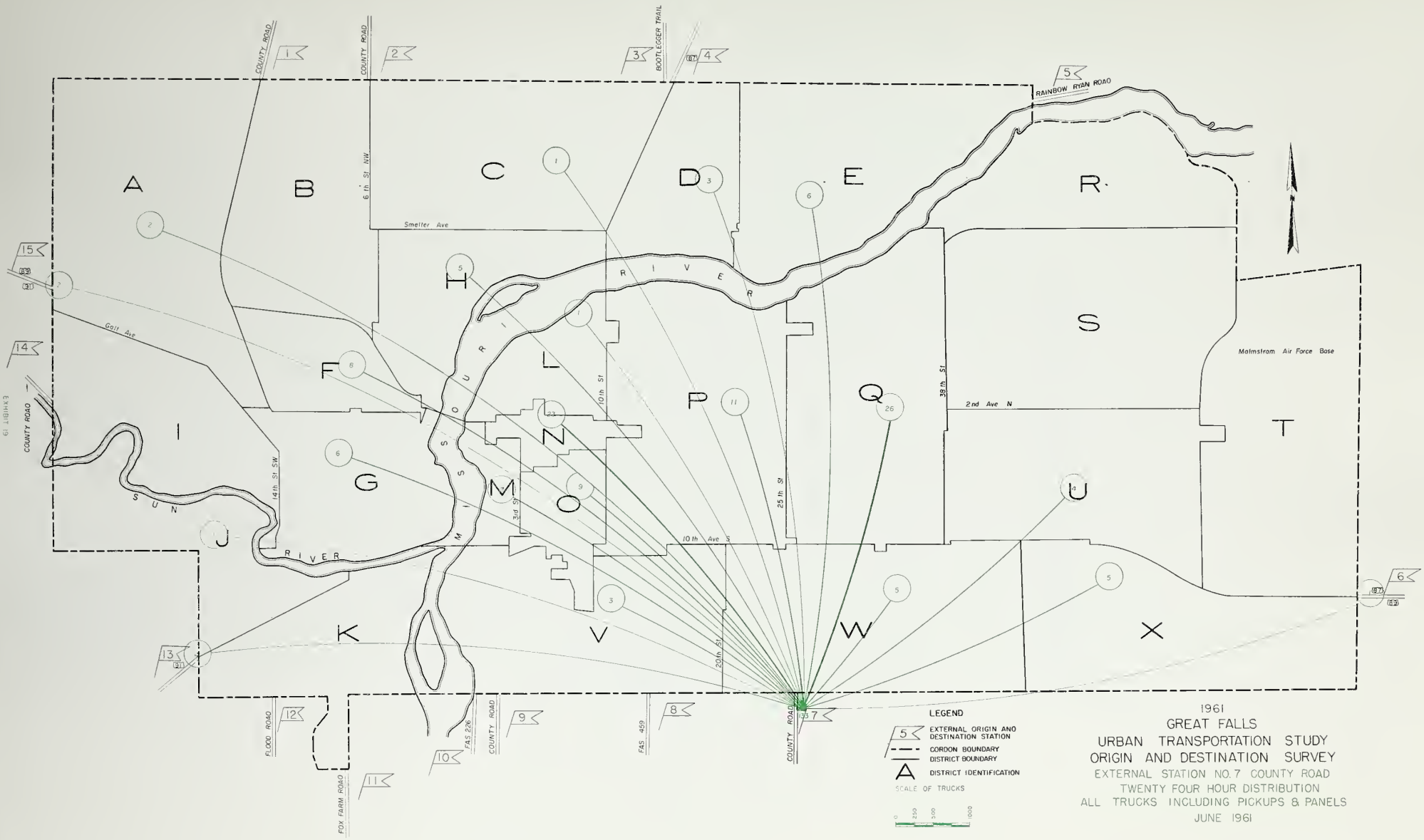
BOOTLEGGER TRAIL
RAINBOW RYAN ROAD
6th St NW
Smelter Ave
Gall Ave
14th St SW
3rd St
10th St
25th St
38th St
2nd Ave N
10th Ave S
20th St
Malmstrom Air Force Base
SUN RIVER
MISSOURI RIVER
FLOOD ROAD
FOX FARM ROAD
FAS 226
FAS 459
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
SCALE OF VEHICLES
1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO. 7 COUNTY ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES – JUNE 1961

EXHIBIT 18

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 7 ON COUNTY ROAD

Total Traffic	133
Percent Through to Other Stations	5.3
Percent to Central Business District.	17.3
Percent East of River, including Central Business District. .	70.7
Percent West of River	24.0


COUNTY ROAD
COUNTY ROAD
BOOTLEGGER TRAIL
RAINBOW RYAN ROAD
6th St NW
Smelter Ave
Gall Ave
COUNTY ROAD
14th St SW
SUN RIVER
MISSOURI RIVER
3rd St
10th St
25th St
38th St
2nd Ave N
10th Ave S
20th St
Malmstrom Air Force Base
FLOOD ROAD
FOX FARM ROAD
FAS 226
COUNTY ROAD
FAS 459
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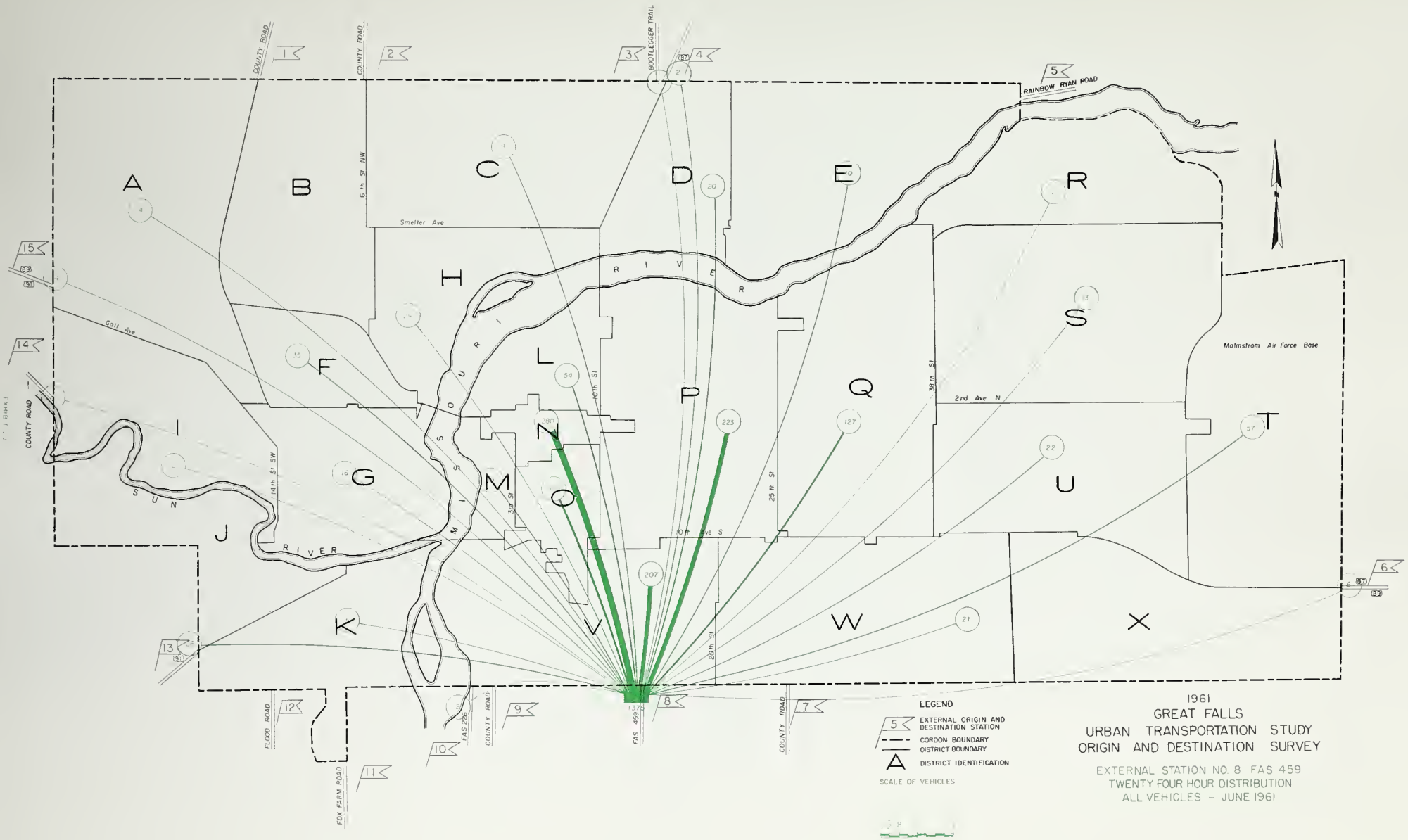
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
SCALE OF TRUCKS
0 250 500 1000
1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO. 7 COUNTY ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

EXHIBIT 19

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 8 ON FAS 459 SOUTH

Total Traffic	1375
Percent Through to Other Stations	3.9
Percent to Central Business District	20.4
Percent East of River, including Central Business District. .	85.3
Percent West of River	10.8

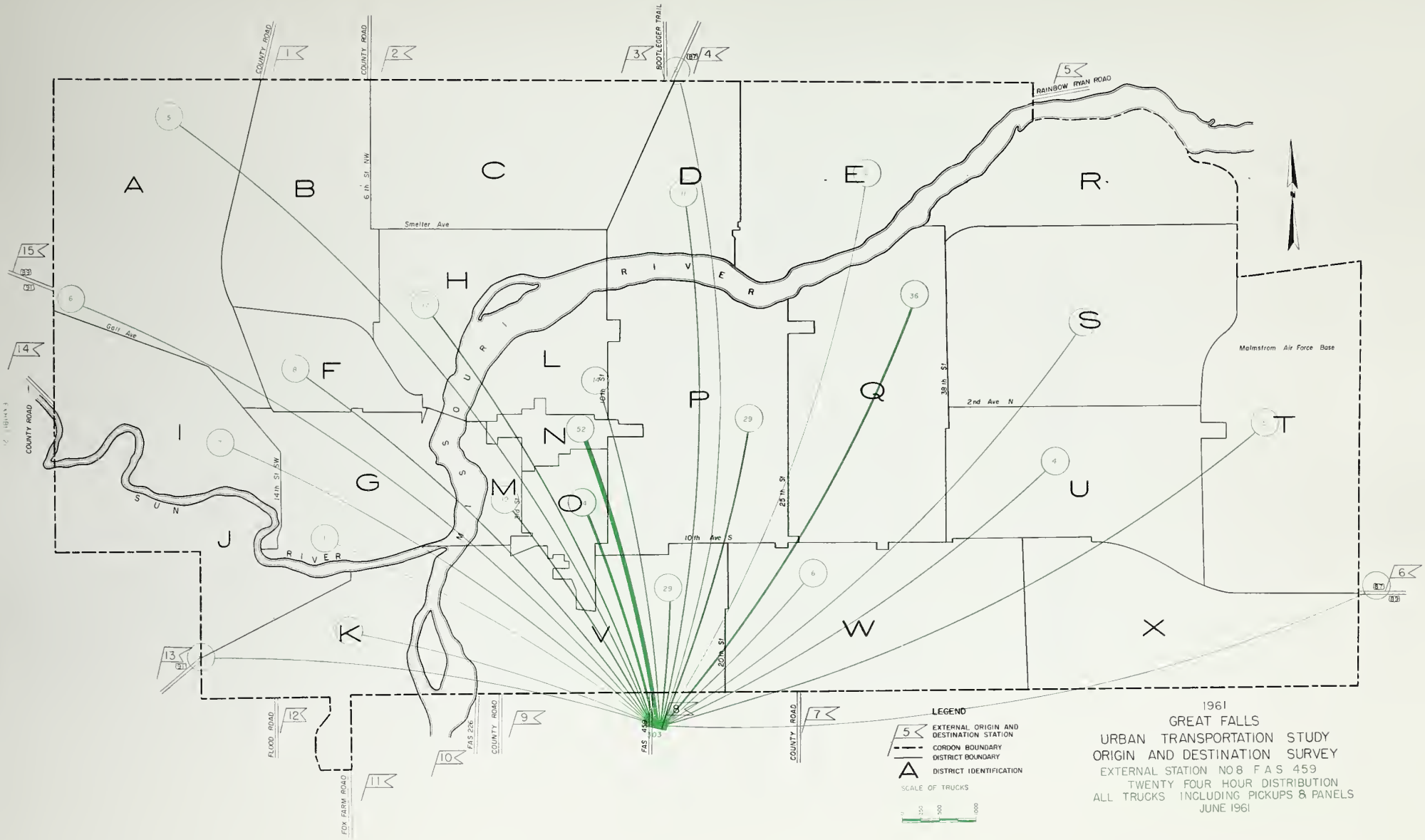


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO. 8 FAS 459
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 8 ON FAS 459 SOUTH

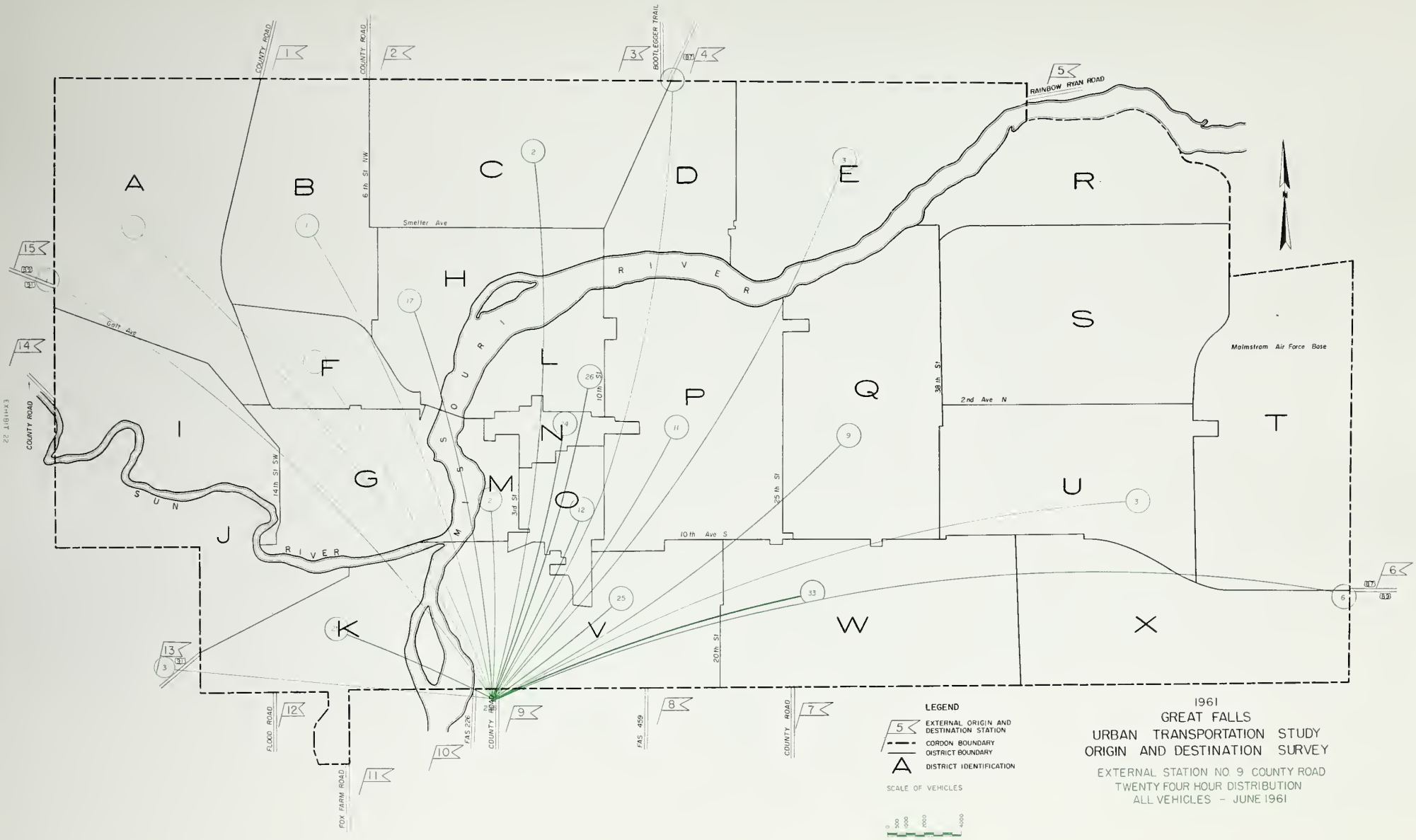
Total Traffic	303
Percent Through to Other Stations	6.6
Percent to Central Business District.	17.2
Percent East of River, including Central Business District. .	75.9
Percent West of River	17.5



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 8 F A S 459
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 9 ON COUNTY ROAD

Total Traffic	206
Percent Through to Other Stations	5.3
Percent to Central Business District	11.7
Percent East of River, including Central Business District . .	70.4
Percent West of River	24.3



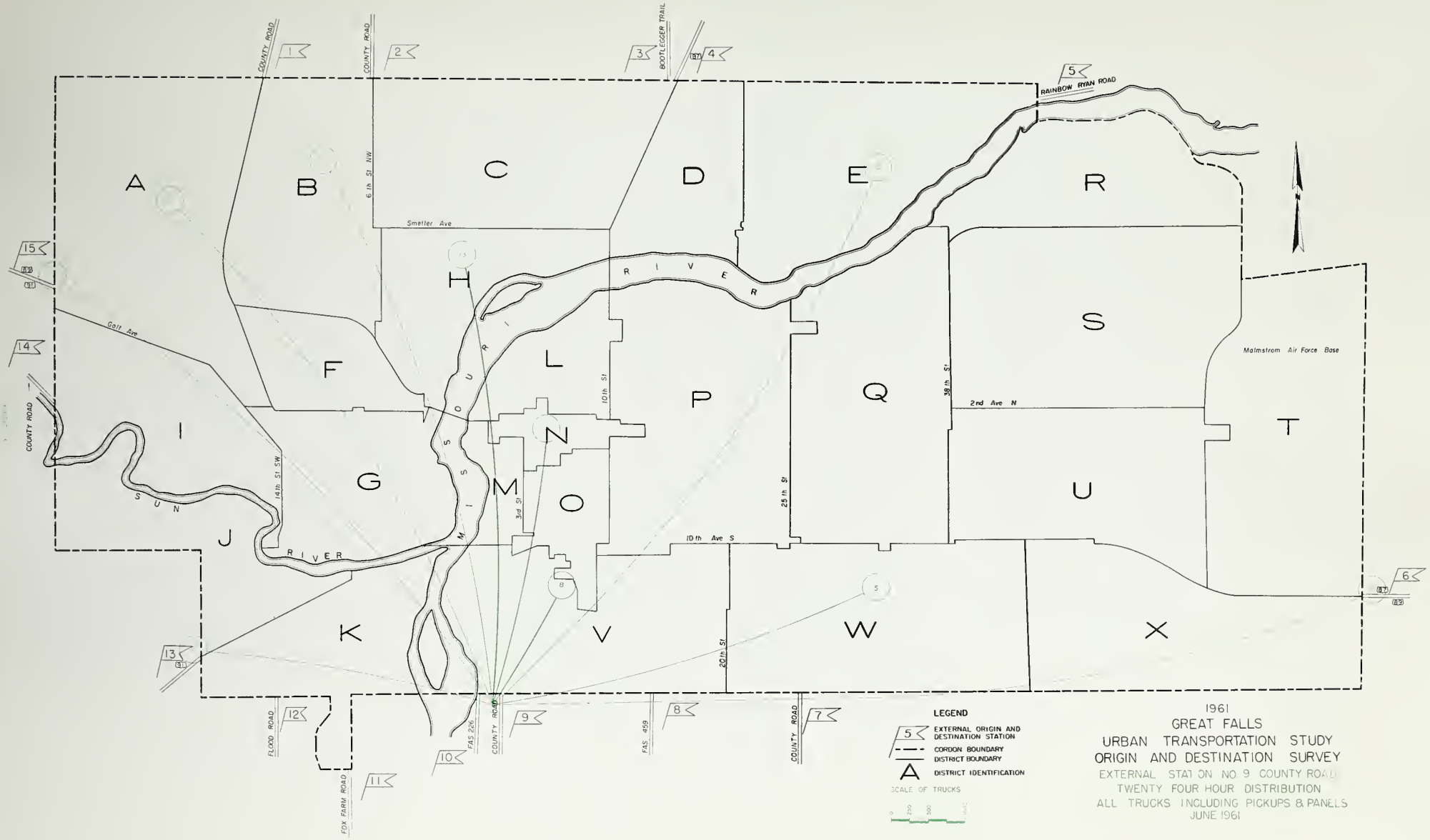
1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO. 9 COUNTY ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

EXHIBIT 22

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 9 ON COUNTY ROAD

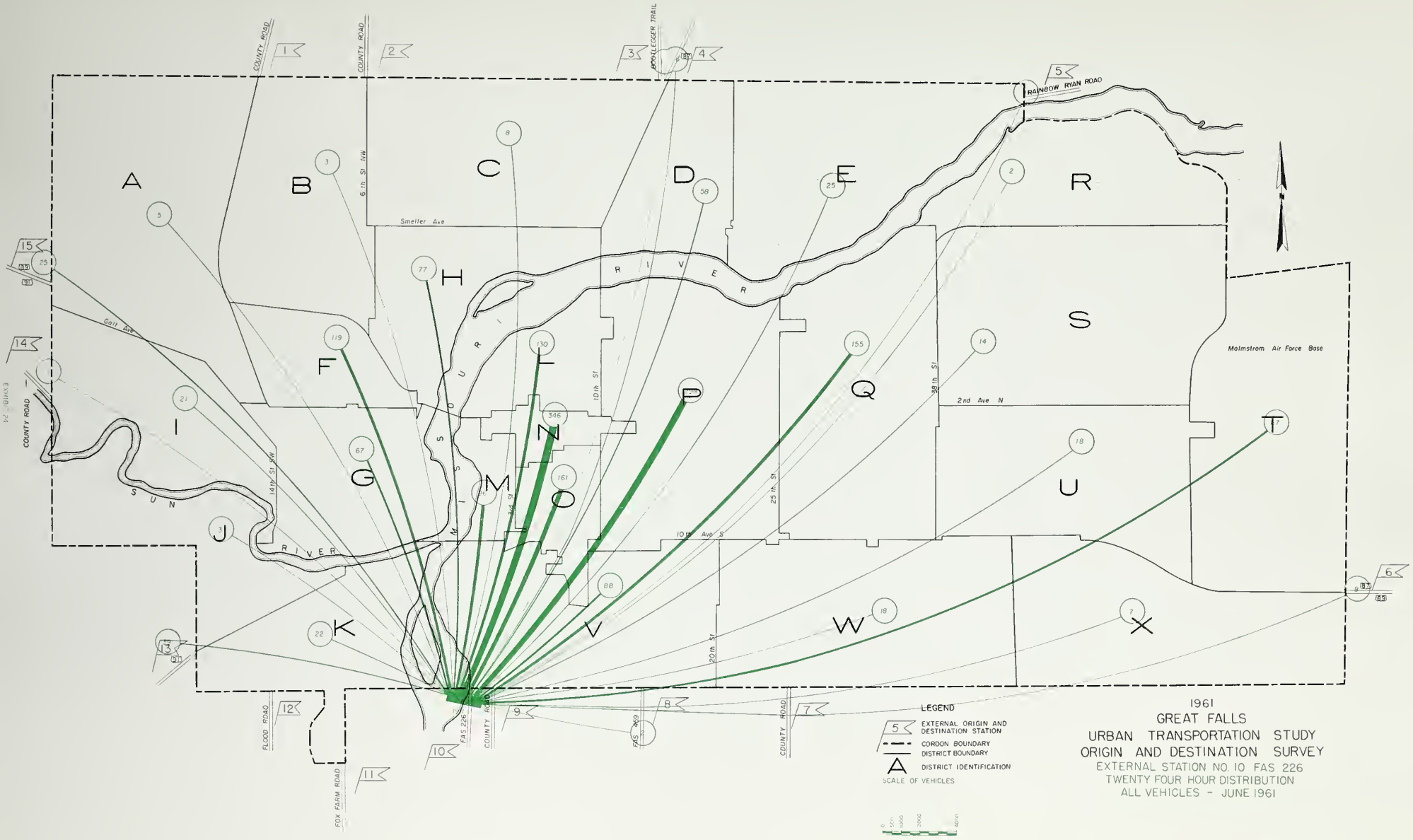
Total Traffic	41
Percent Through to Other Stations	9.7
Percent to Central Business District	17.1
Percent East of River,including Central Business District . .	48.8
Percent West of River	41.5



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO. 9 COUNTY ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 10 ON FAS 226 SOUTH

Total Traffic	1911
Percent Through to Other Stations	4.3
Percent to Central Business District	18.1
Percent East of River, including Central Business District. .	74.3
Percent West of River	21.4

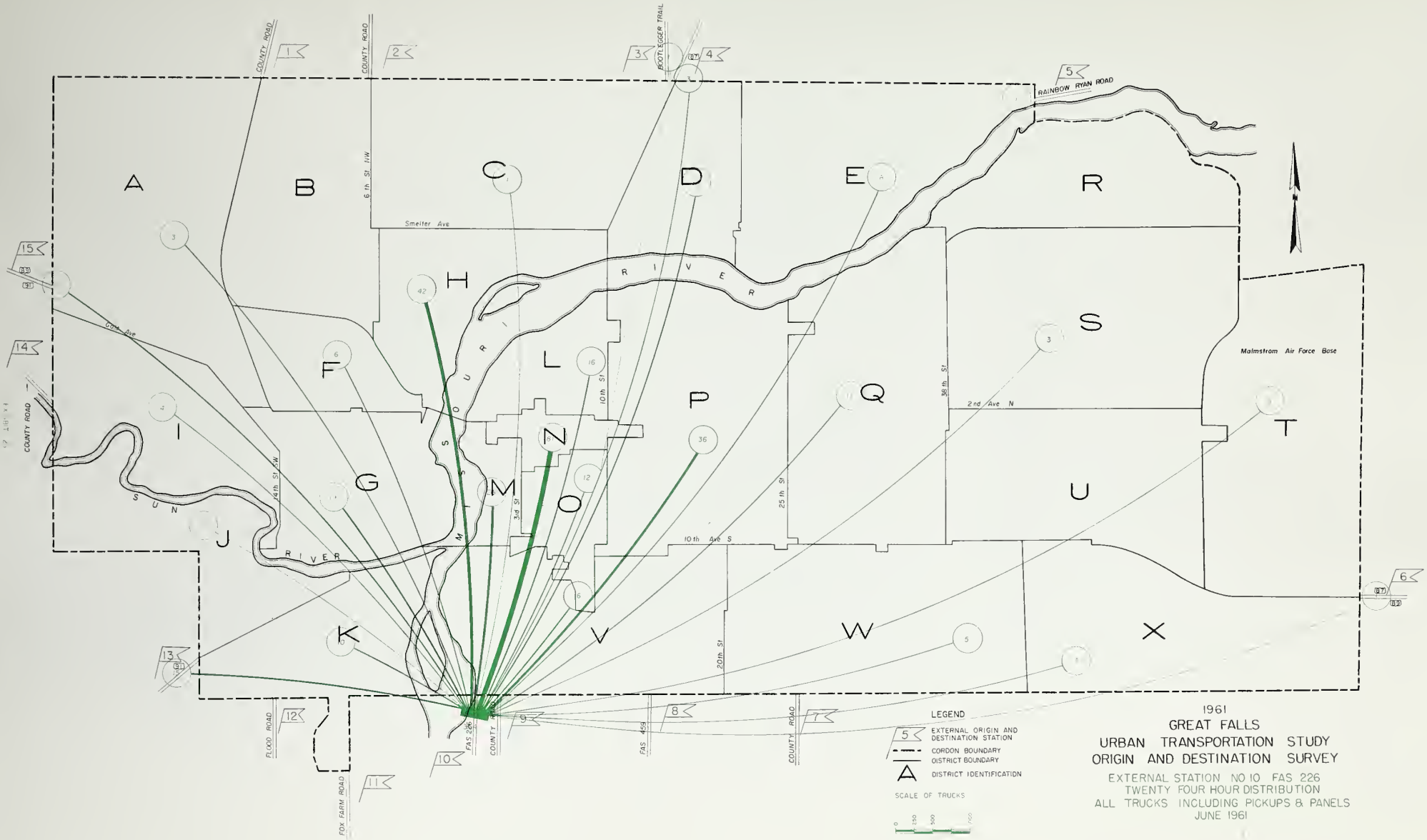


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO. 10 FAS 226
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

EXHIBIT 24

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 10 ON FAS 226 SOUTH

Total Traffic	364
Percent Through to Other Stations	10.4
Percent to Central Business District	22.3
Percent East of River, including Central Business District. .	59.6
Percent West of River	30.0

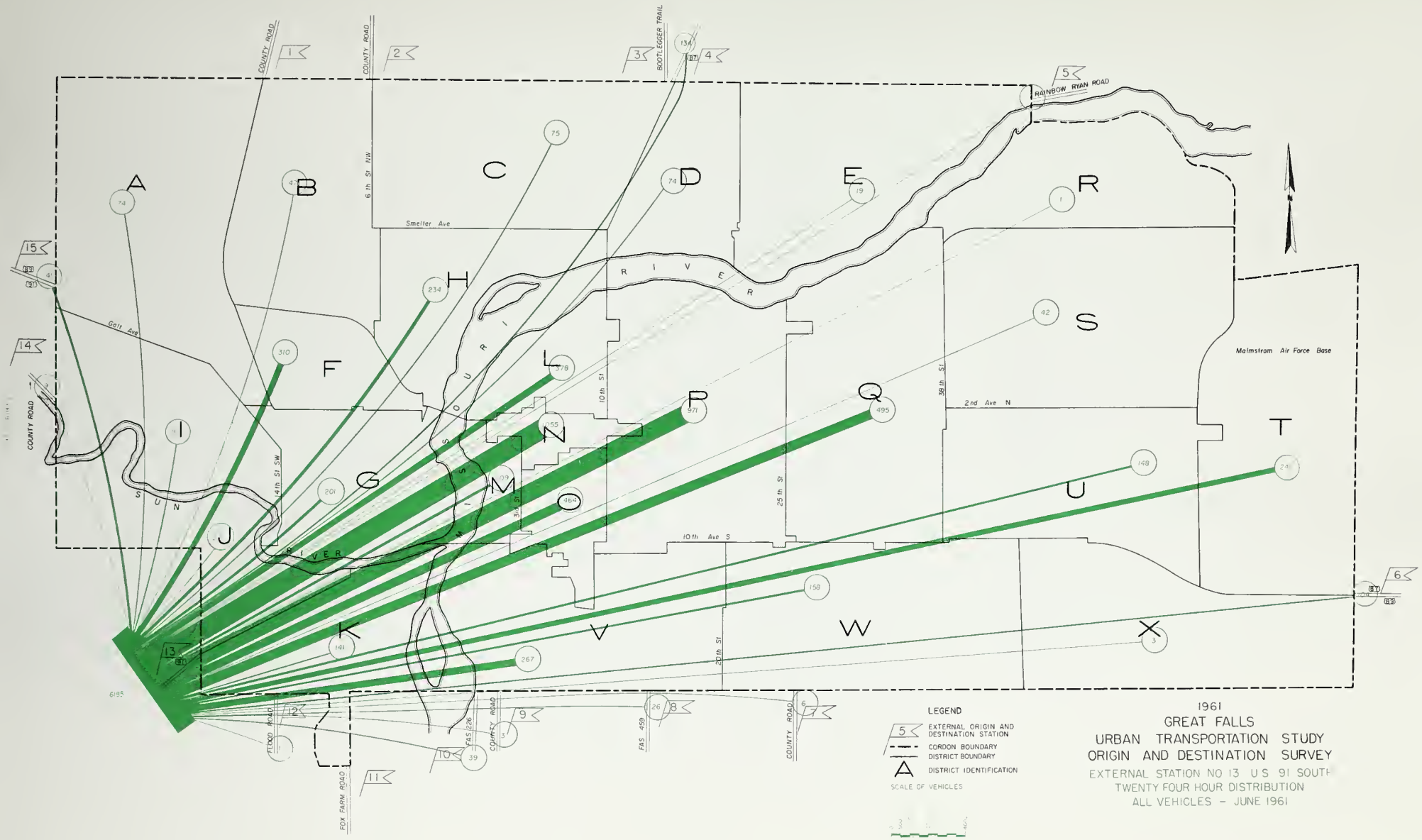


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO 10 FAS 226
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 13 ON U.S. 91 SOUTH

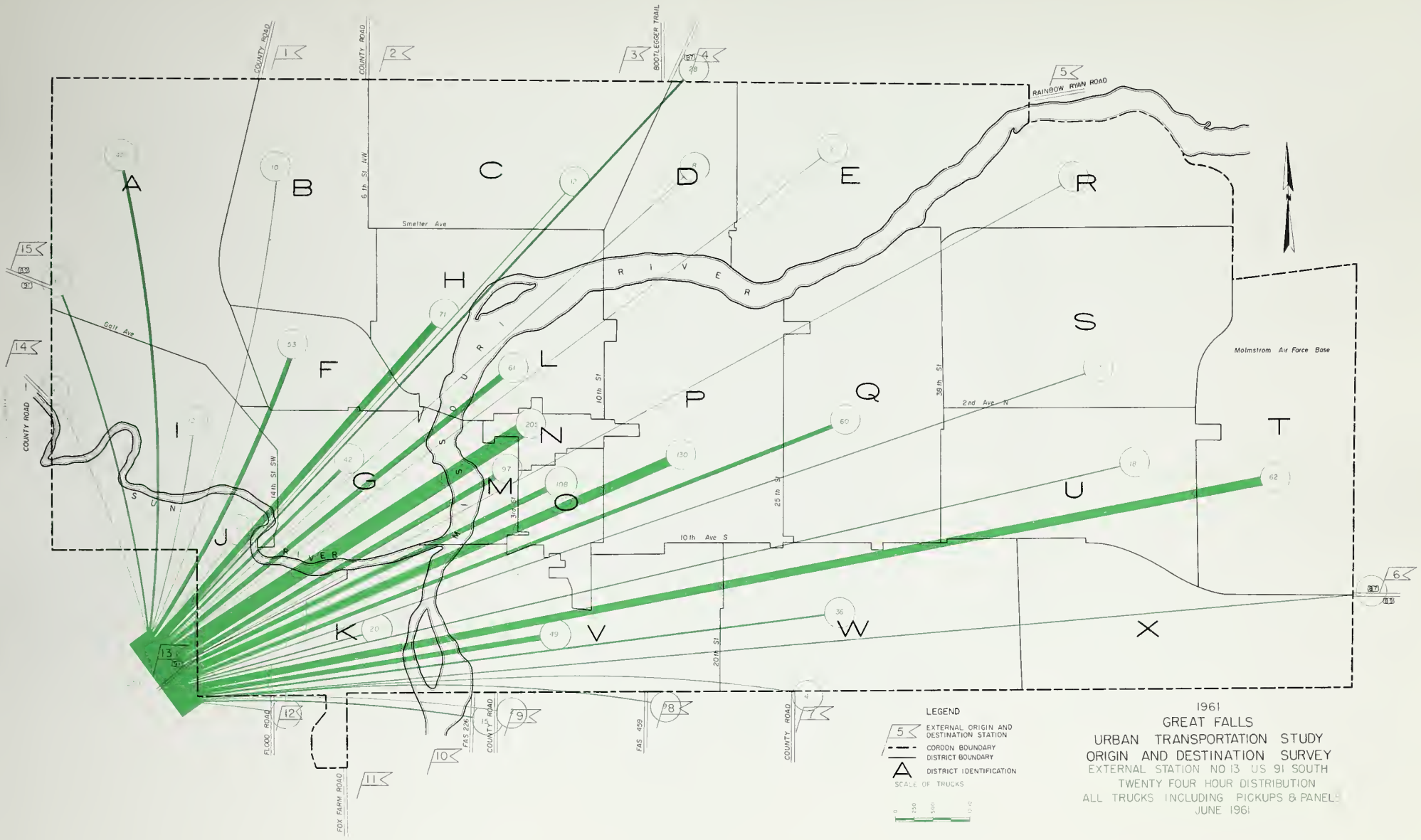
Total Traffic	6185
Percent Through to Other Stations	7.6
Percent to Central Business District	17.1
Percent East of River, including Central Business District. .	71.7
Percent West of River	20.7



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 13 U S 91 SOUTH
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 13 ON U.S. 91 SOUTH

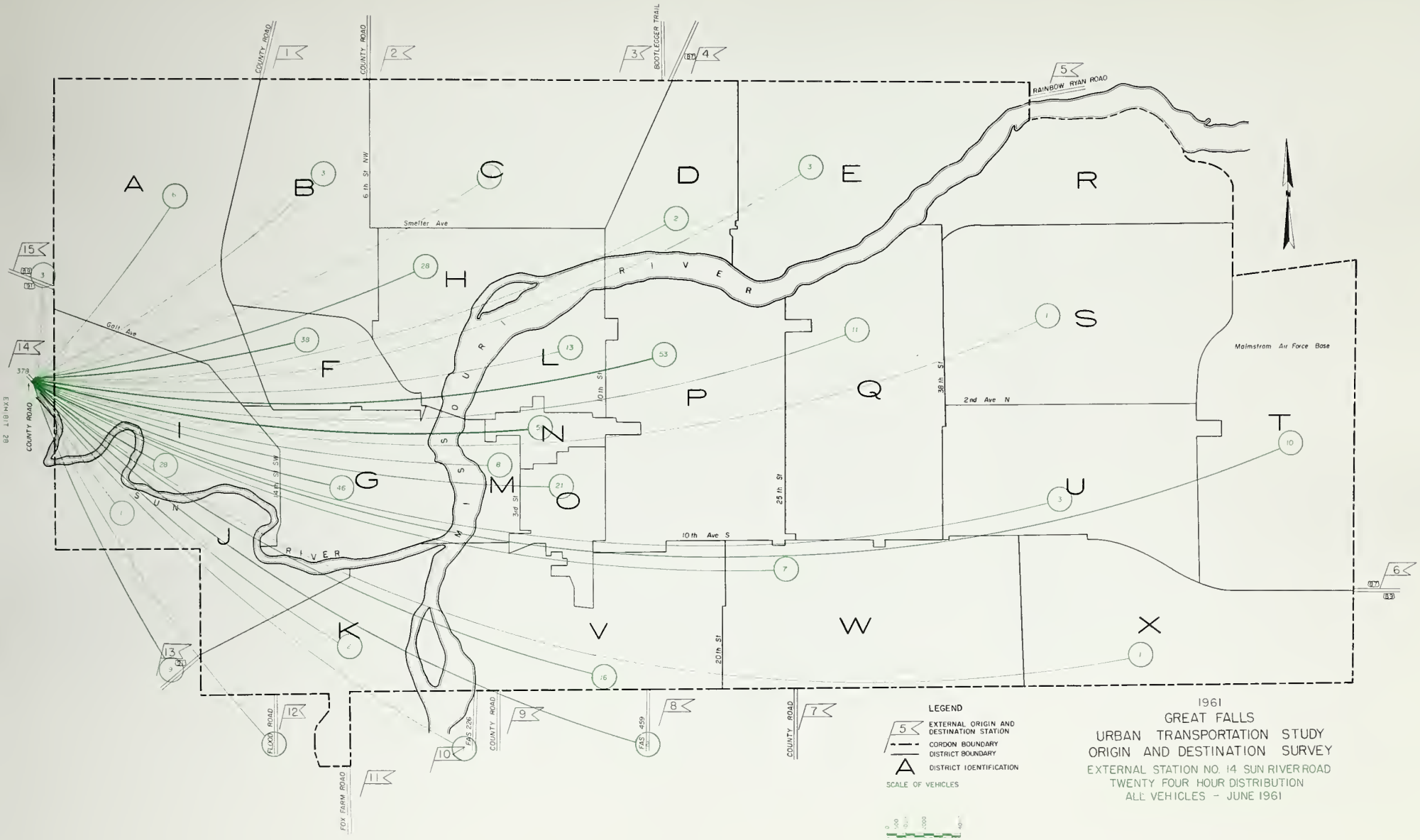
Total Traffic	1230
Percent Through to Other Stations	9.0
Percent to Central Business District	16.7
Percent East of River, including Central Business District. .	68.6
Percent West of River	22.4



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 13 US 91 SOUTH
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 14 ON COUNTY ROAD WEST

Total Traffic	378
Percent to Central Business District	4.2
Percent East of River, including Central Business District. .	53.7
Percent West of River	42.1

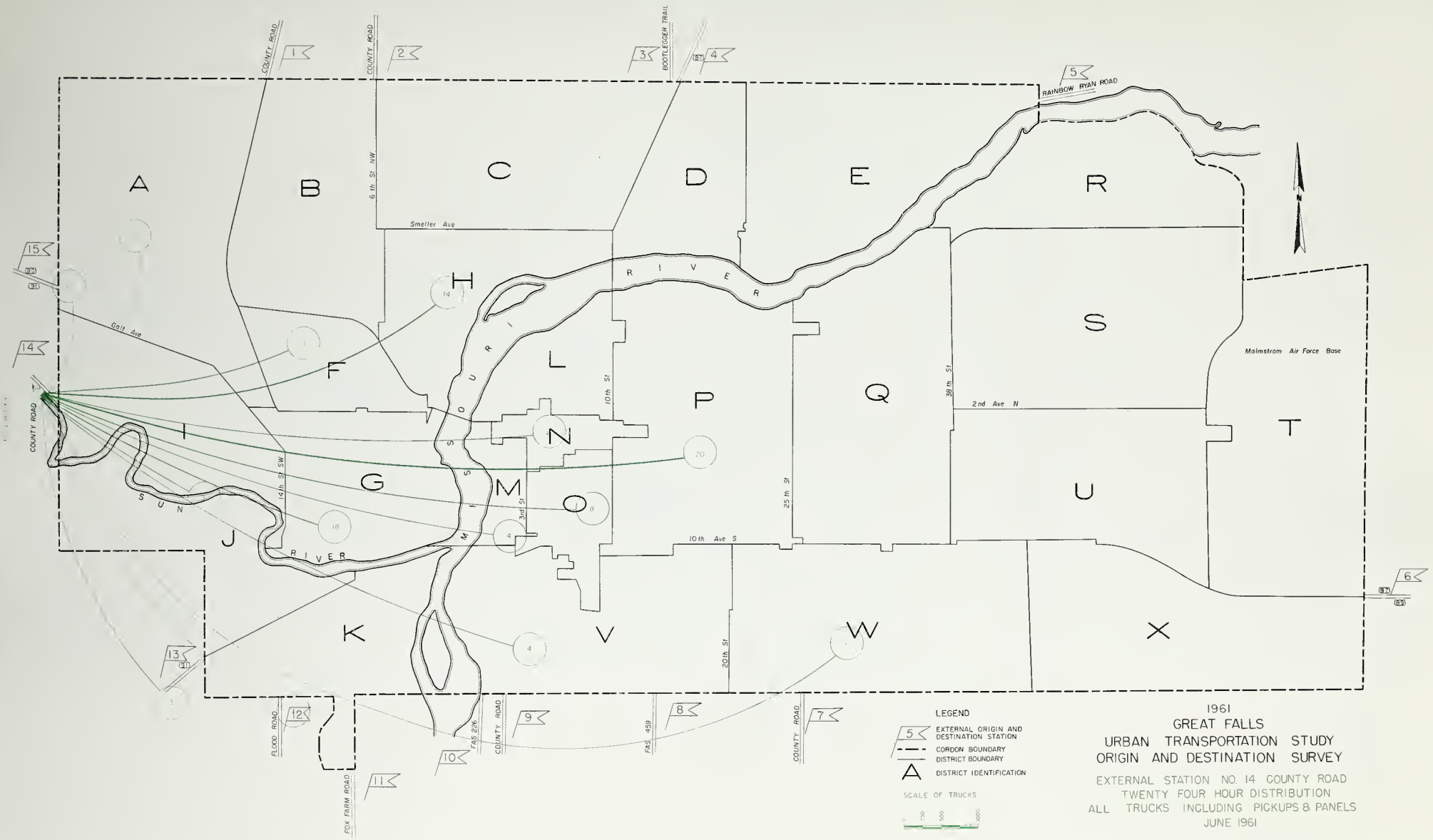


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO. 14 SUN RIVER ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

EXHIBIT 28

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 14 ON COUNTY ROAD WEST

Total Traffic	99
Percent Through to Other Stations	6.0
Percent to Central Business District	9.1
Percent East of River, including Central Business District. .	46.5
Percent West of River	47.5

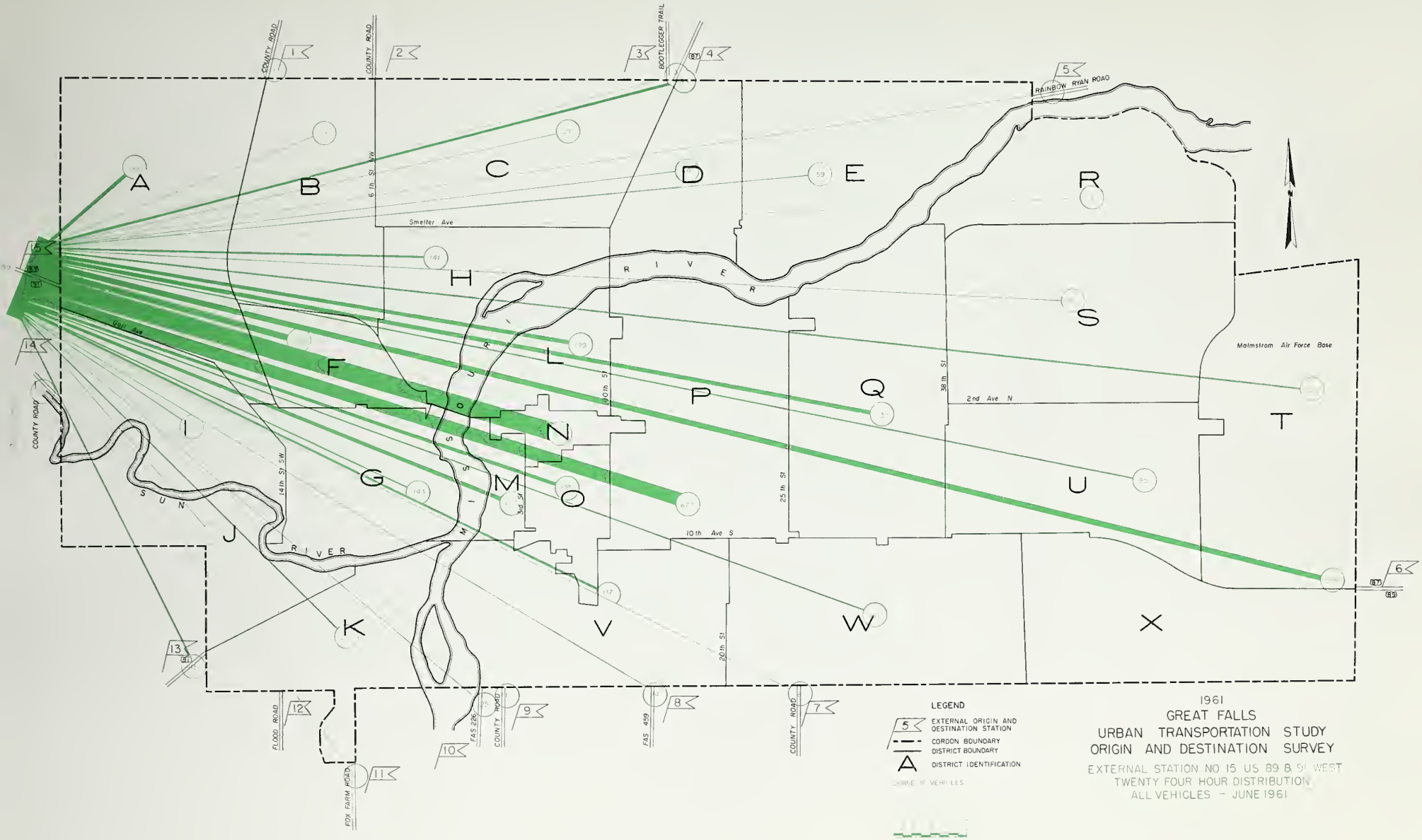


1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

EXTERNAL STATION NO. 14 COUNTY ROAD
TWENTY FOUR HOUR DISTRIBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

DISTRIBUTION OF ALL TRAFFIC PASSING
INTERVIEW STATION 15 ON U.S. 89 & 91 WEST

Total Traffic	4599
Percent Through to Other Stations	11.5
Percent to Central Business District	20.7
Percent East of River, including Central Business District. .	65.2
Percent West of River	23.3



COUNTY ROAD
BOOTLEGGER TRAIL
RAINBOW RYAN ROAD
6th St NW
Smelter Ave
Gall Ave
14th St SW
3rd St
10th St
25th St
38th St
2nd Ave N
10th Ave S
20th St
Malmstrom Air Force Base
SUN RIVER
MISSOURI RIVER
FLOOD ROAD
FOX FARM ROAD
FAS 226
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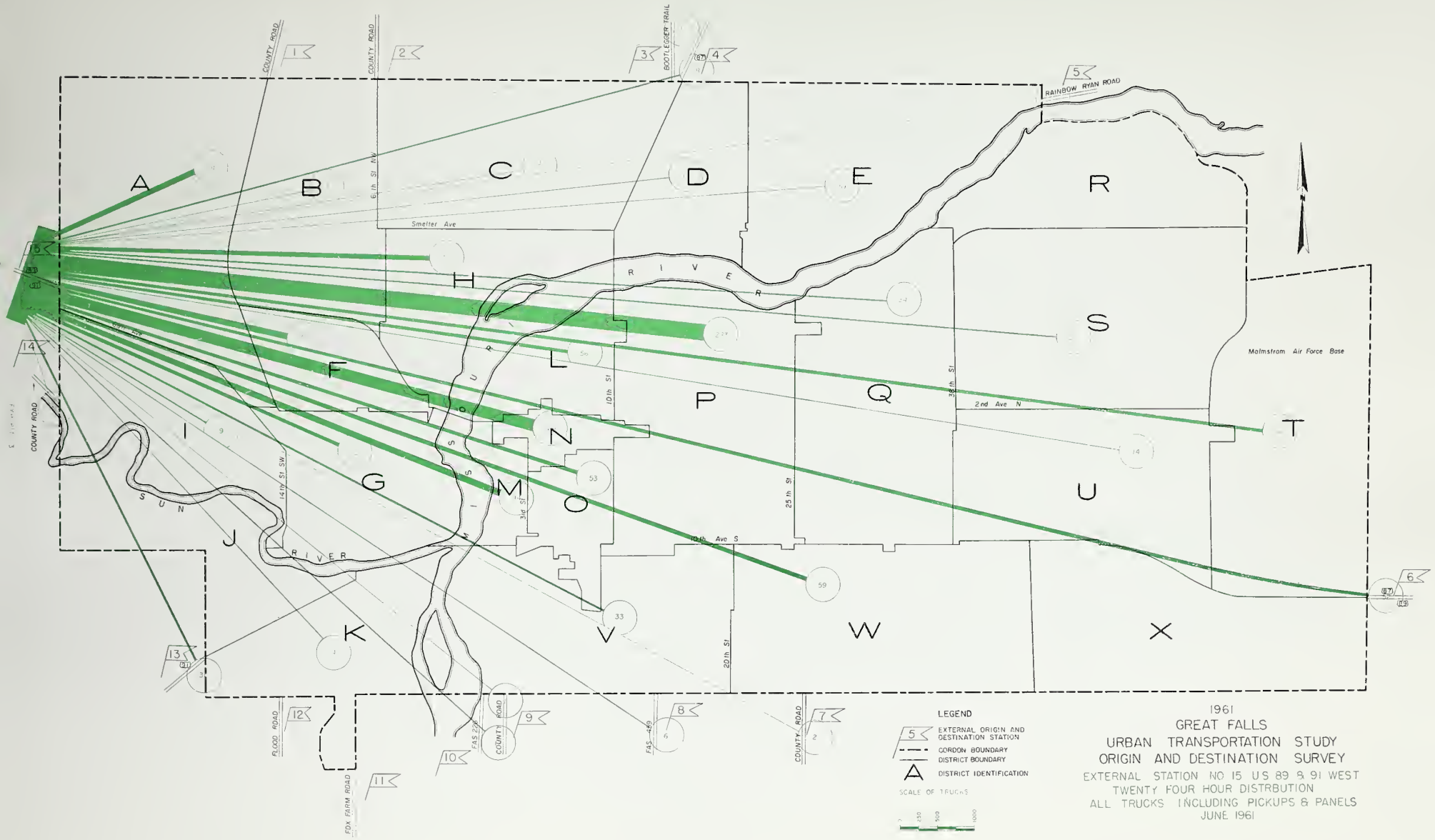
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 15 US 89 & 91 WEST
TWENTY FOUR HOUR DISTRIBUTION
ALL VEHICLES - JUNE 1961

DISTRIBUTION OF ALL TRUCKS PASSING
INTERVIEW STATION 15 ON U.S. 89 & 91 WEST

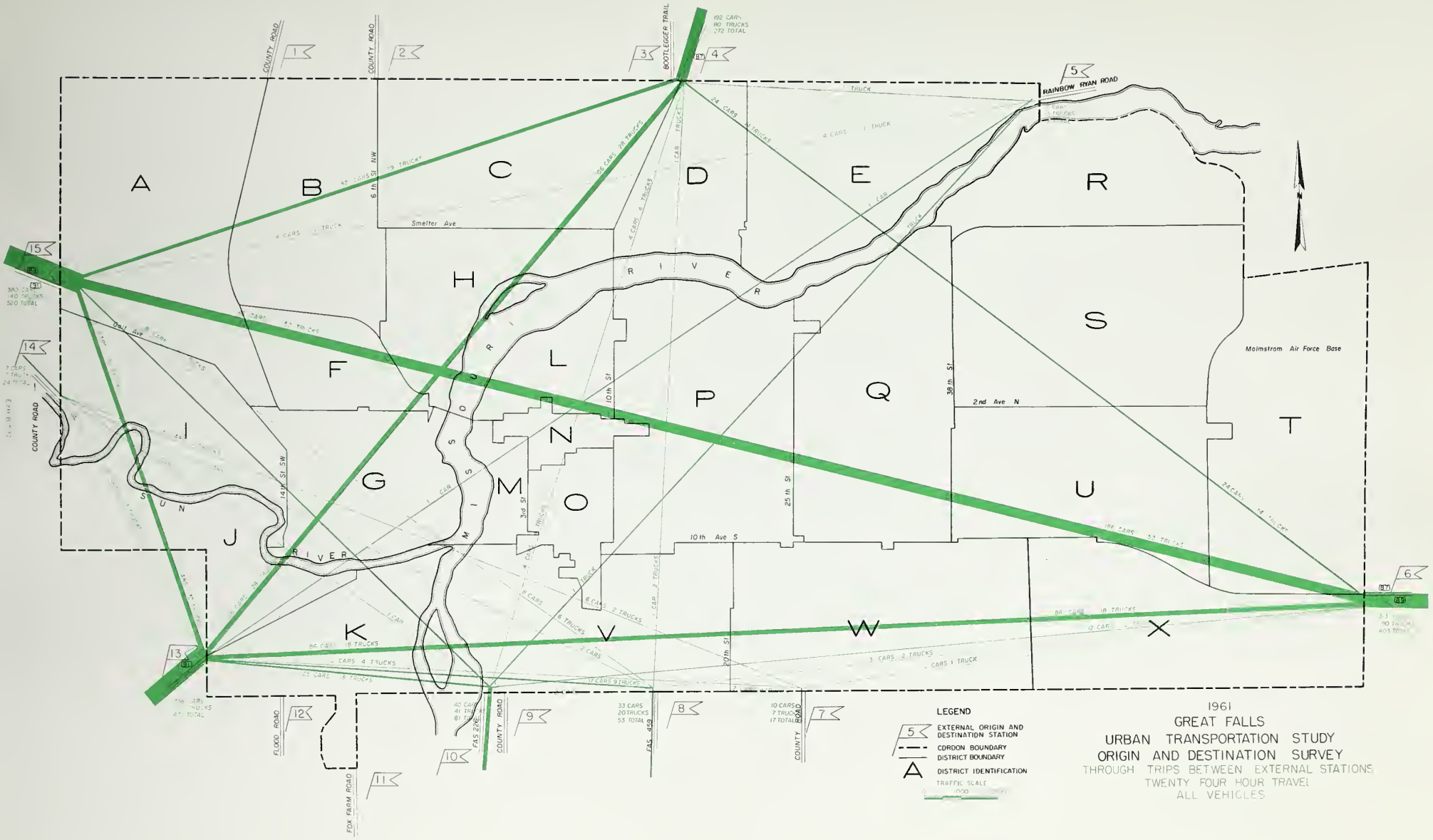
Total Traffic	1296
Percent Through to Other Stations	10.9
Percent to Central Business District	13.0
Percent East of River, including Central Business District. .	61.8
Percent West of River	27.3



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATION NO 15 US 89 & 91 WEST
TWENTY FOUR HOUR DISTRBUTION
ALL TRUCKS INCLUDING PICKUPS & PANELS
JUNE 1961

THROUGH TRAFFIC BETWEEN EXTERNAL STATIONS

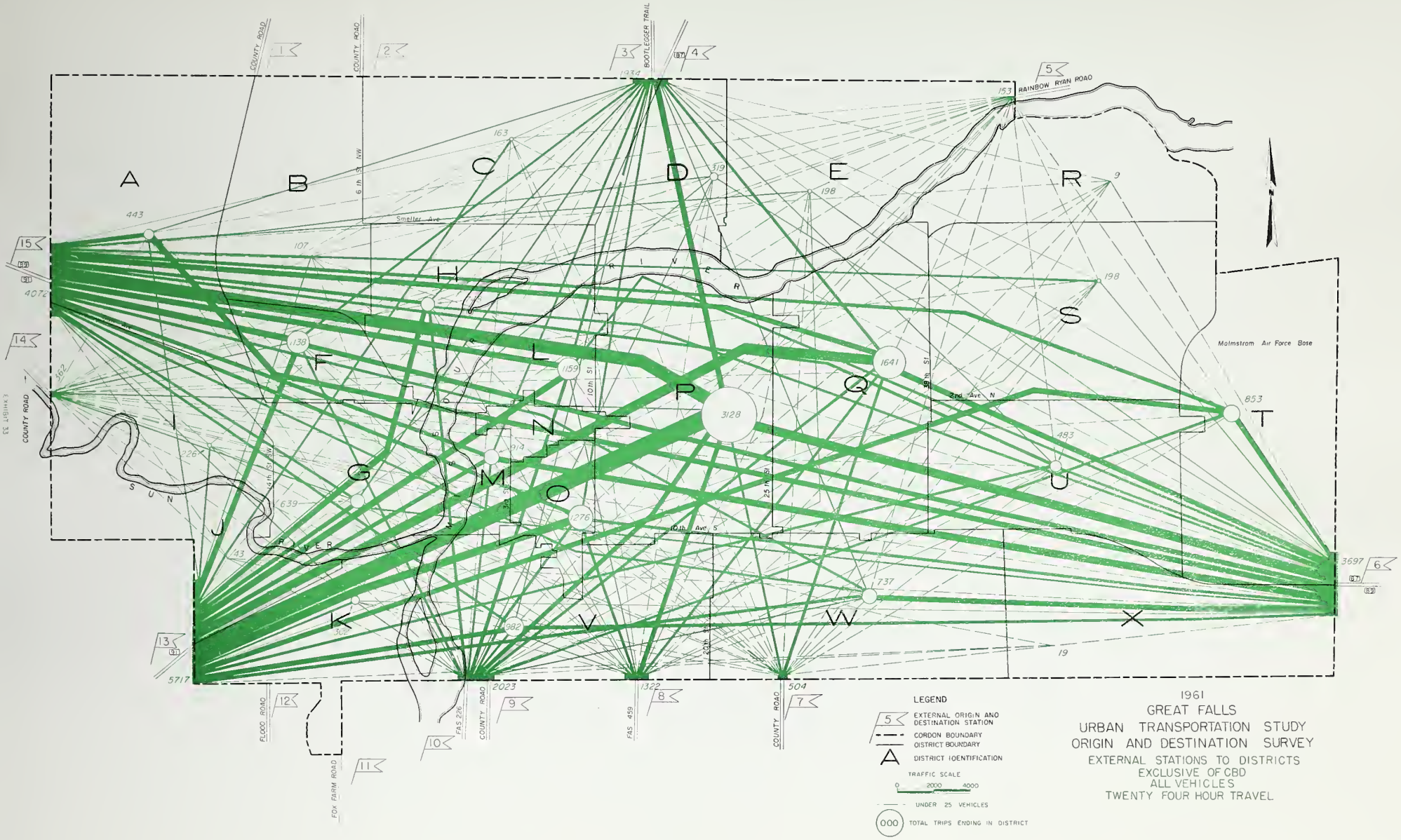
Exhibit 32 on the opposite page illustrates the total volume of through traffic between external stations that did not stop within the survey area. The traffic volumes illustrated amount to about 4.5 percent of the total external traffic.



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
THROUGH TRIPS BETWEEN EXTERNAL STATIONS
TWENTY FOUR HOUR TRAVEL
ALL VEHICLES

EXTERNAL STATIONS TO INTERNAL DISTRICTS

Exhibit 33 on the opposite page illustrates the desire lines of travel between all external stations and internal districts exclusive of the Central Business District. A total of 15,725 trips, amounting to 76% of the total external traffic, are shown by the flow bands on this chart.



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
EXTERNAL STATIONS TO DISTRICTS
EXCLUSIVE OF CBD
ALL VEHICLES
TWENTY FOUR HOUR TRAVEL
LEGEND
EXTERNAL ORIGIN AND DESTINATION STATION
CORDON BOUNDARY
DISTRICT BOUNDARY
DISTRICT IDENTIFICATION
TRAFFIC SCALE
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UNDER 25 VEHICLES
TOTAL TRIPS ENDING IN DISTRICT
Malmstrom Air Force Base
RAINBOW RYAN ROAD
BOOTLEGGER TRAIL
COUNTY ROAD
FLOOD ROAD
FOX FARM ROAD
FAS 226
FAS 459
Smelter Ave
2nd Ave N
10th Ave S
6th St NW
14th St SW
10th St
25th St
38th St
SUN RIVER

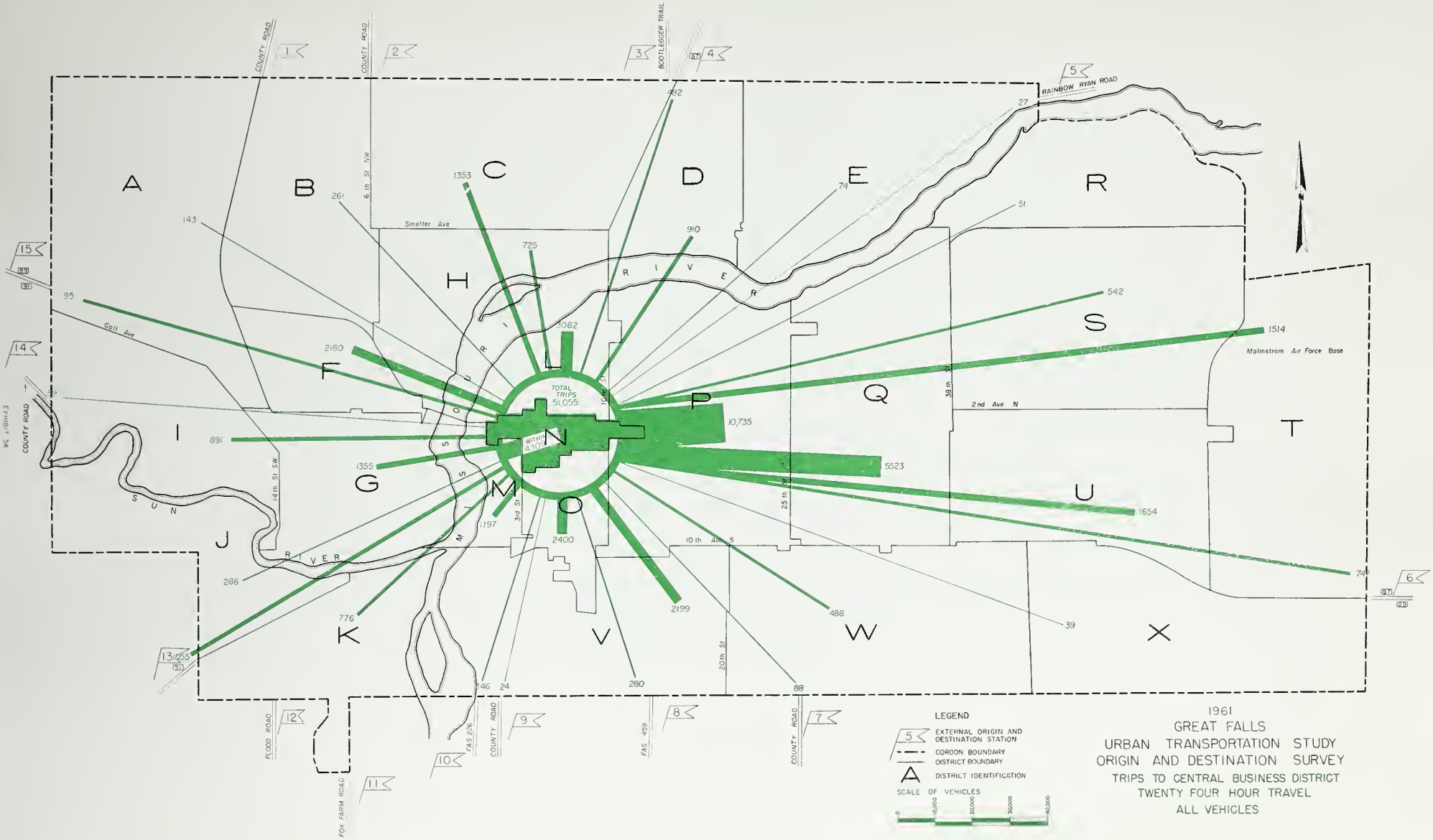
INTERNAL AND EXTERNAL TRIPS TO CENTRAL BUSINESS DISTRICT

Exhibit 34 on the opposite page combines both internal and external travel in the illustration of trips having either an origin, destination or both within the Central Business District.

These trips are summarized as follows:

Trips To and From External Stations - - - - - - - - -	4,059
Trips To and From Internal Districts - - - - - - - - -	42,687
Trips Within Central Business District - - - - - - - -	4,309
TOTAL TRIPS -	51,055

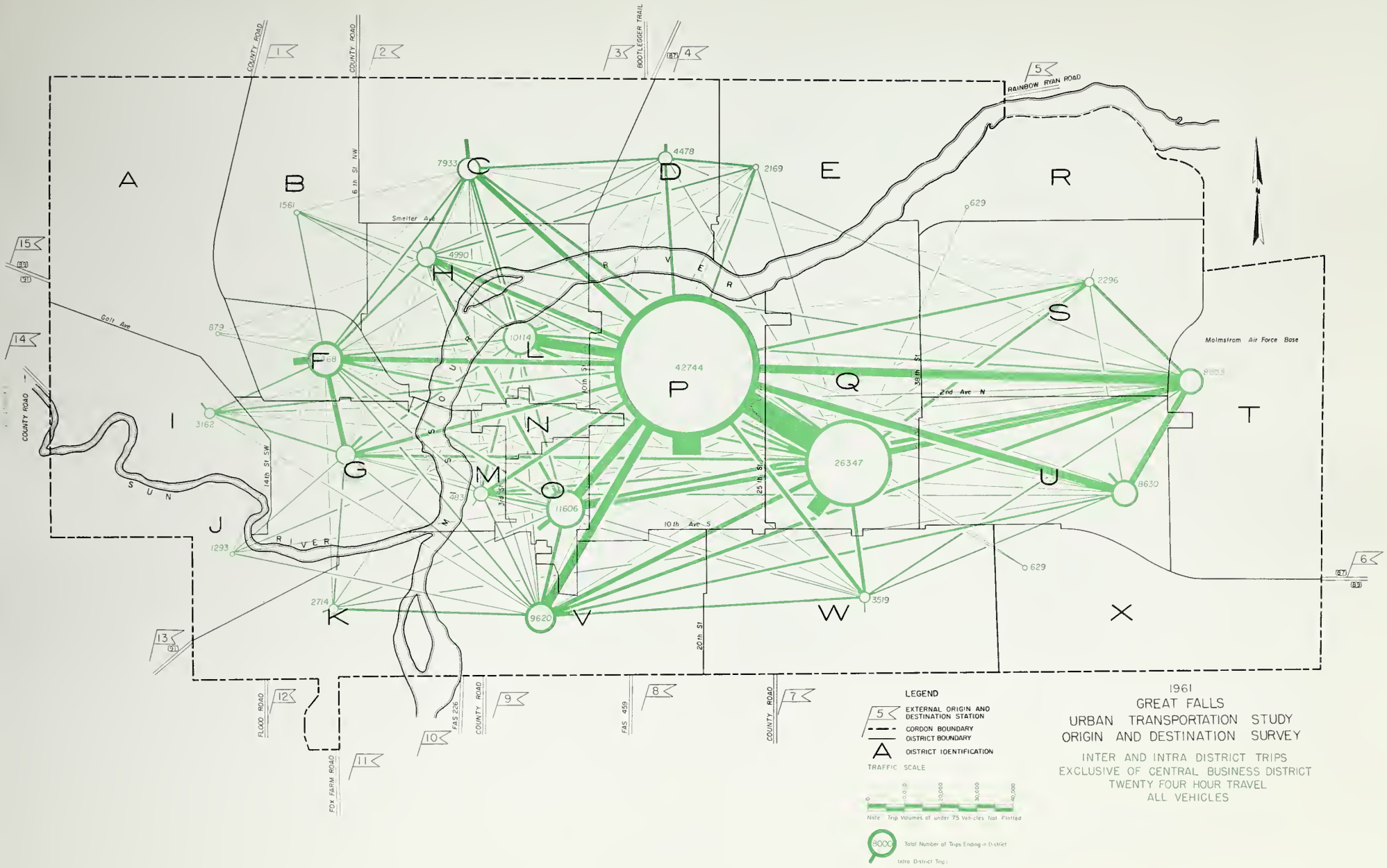
Total trips generated by the Central Business District (51,055) amounted to 34 percent of the total trips (152,053) within the study area.



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY
TRIPS TO CENTRAL BUSINESS DISTRICT
TWENTY FOUR HOUR TRAVEL
ALL VEHICLES

TRIPS WITHIN AND BETWEEN DISTRICTS

Exhibit 35 on the opposite page illustrates the major desire lines of internal travel within and between all districts except the Central Business District. Trip volumes of less than 75 are not shown in the interest of clarity. Trips within and between all districts except the Central Business District amounted to 64 percent of the total internal travel.



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

INTER AND INTRA DISTRICT TRIPS
EXCLUSIVE OF CENTRAL BUSINESS DISTRICT
TWENTY FOUR HOUR TRAVEL
ALL VEHICLES

Land Use
and
Dwelling Unit Inventory

LAND USE AND DWELLING UNIT INVENTORY

An integral part in the development of any comprehensive transportation study is the inventory of the present use that is being made of the land within the study area. This basic information is used in the projection of future land use patterns and population. Since different types of land use have specific traffic generation patterns, future land use and population can in turn be converted to future traffic volumes which are of primary importance in planning an adequate transportation network.

The joint City-County Planning Board, sponsored by Great Falls and Cascade County, made an extensive study of present land use within the city and contiguous fringe areas. A complete inventory by land parcel was available through 1959. These basic data were revised by extensive field checking to reflect the changes and additions that had occurred from 1959 to December 31, 1961.

Existing land use in the Great Falls metropolitan area has been grouped into 9 major categories as shown in Exhibit 36 on page 99. The predominant type of use has been shown for land areas as small as one-half block where the usage differed considerably within a city block. The study area for land use included all lands within the inner cordon which totaled about 20,500 acres.

The net acres devoted to each land use by traffic zone is shown in the appendix tabulation on page 113 and summarized as follows for the entire study area.

PREDOMINANT LAND USE

	NET ACRES	PERCENT OF TOTAL AREA	PERCENT OF DEVELOPED LAND
Residential	2,651.8	12.9	30.4
Commercial	290.2	1.4	3.3
Industrial	1,203.6	5.9	13.8
Public & Semipublic	2,157.5	10.5	24.7
Streets and Alleys	2,428.2	11.8	27.8
Subtotal Developed Land	8,731.3	42.5	100.0
Undeveloped-including agriculture land	11,833.1	57.5	
TOTAL AREA	20,564.4	100.0	

The entire survey area averaged 9.0 dwellings and 28 persons per net residential acre. A high of 168 dwellings and 219 persons per net residential acre was found in zone 7308 in the Central Business District. The most sparsely settled zone was 6102 in the Northwest Quadrant which contained about 3 dwellings and 10 persons per net residential acre.

DWELLING UNIT INVENTORY

A survey of dwelling units in the Great Falls Study Area indicates a total of 23,815 units that were occupied by 74,735 persons as of December 31, 1961.

The dwelling units found in the transportation study are summarized by type and number of trips per unit as follows:

Type of Dwelling Unit	Number	Percent	Number of Trips Per Dwelling Unit: Auto Driver	Number of Trips Per Dwelling Unit: Total
Single Detached	14,622	61.4	5.4	8.5
Single Attached	2,477	10.4	4.0	6.9
2-4 Apartments	2,500	10.5	4.1	6.3
5-19 Apartments	1,500	6.3	2.2	3.3
20 or more Apartments	572	2.4	1.5	2.4
Rooming Houses-Barracks	1,453	6.1	0.9	1.7
Hotels	619	2.6	0.7	1.1
Motels	48	0.2	4.4	5.6
Rest Homes-Institutions	24	0.1	--	--
ALL DWELLING UNITS	23,815	100.0	4.3	6.8

The number of persons and passenger cars by type of dwelling unit is shown in the following table:

Type of Dwelling Unit	Number Per Dwelling Unit: Persons	Number Per Dwelling Unit: Pass. Cars	Number Per Dwelling Unit: Persons Per Car
Single Detached	3.7	1.35	2.74
Single Attached	3.4	1.10	3.09
2-4 Apartments	2.8	1.03	2.72
5-19 Apartments	1.9	0.77	2.46
20 or more Apartments	1.5	0.60	2.50
Rooming Houses - Barracks	1.0	0.55	1.81
Hotels	1.2	0.34	3.53
Motels	3.8	0.80	4.75
Rest Homes - Institutions	1.0	0.00	--
ALL DWELLING UNITS	3.1	1.16	2.76

Type of Dwelling Unit	Number	Percent	Number of Trips Per Dwelling Unit	
			Auto Driver	Total
Single Detached	14,622	61.4	5.4	8.5
Single Attached	2,477	10.4	4.0	6.9
2-4 Apartments	2,500	10.5	4.1	6.3
5-19 Apartments	1,500	6.3	2.2	3.3
20 or more Apartments	572	2.4	1.5	2.4
Rooming Houses-Barracks	1,453	6.1	0.9	1.7
Hotels	619	2.6	0.7	1.1
Motels	48	0.2	4.4	5.6
Rest Homes-Institutions	24	0.1	--	--
ALL DWELLING UNITS	23,815	100.0	4.3	6.8

The number of persons and passenger cars by type of dwelling unit is shown in the following table:

Type of Dwelling Unit	Number Per Dwelling Unit		
	Persons	Pass. Cars	Persons Per Car
Single Detached	3.7	1.35	2.74
Single Attached	3.4	1.10	3.09
2-4 Apartments	2.8	1.03	2.72
5-19 Apartments	1.9	0.77	2.46
20 or more Apartments	1.5	0.60	2.50
Rooming Houses - Barracks	1.0	0.55	1.81
Hotels	1.2	0.34	3.53
Motels	3.8	0.80	4.75
Rest Homes - Institutions	1.0	0.00	--
ALL DWELLING UNITS	3.1	1.16	2.76

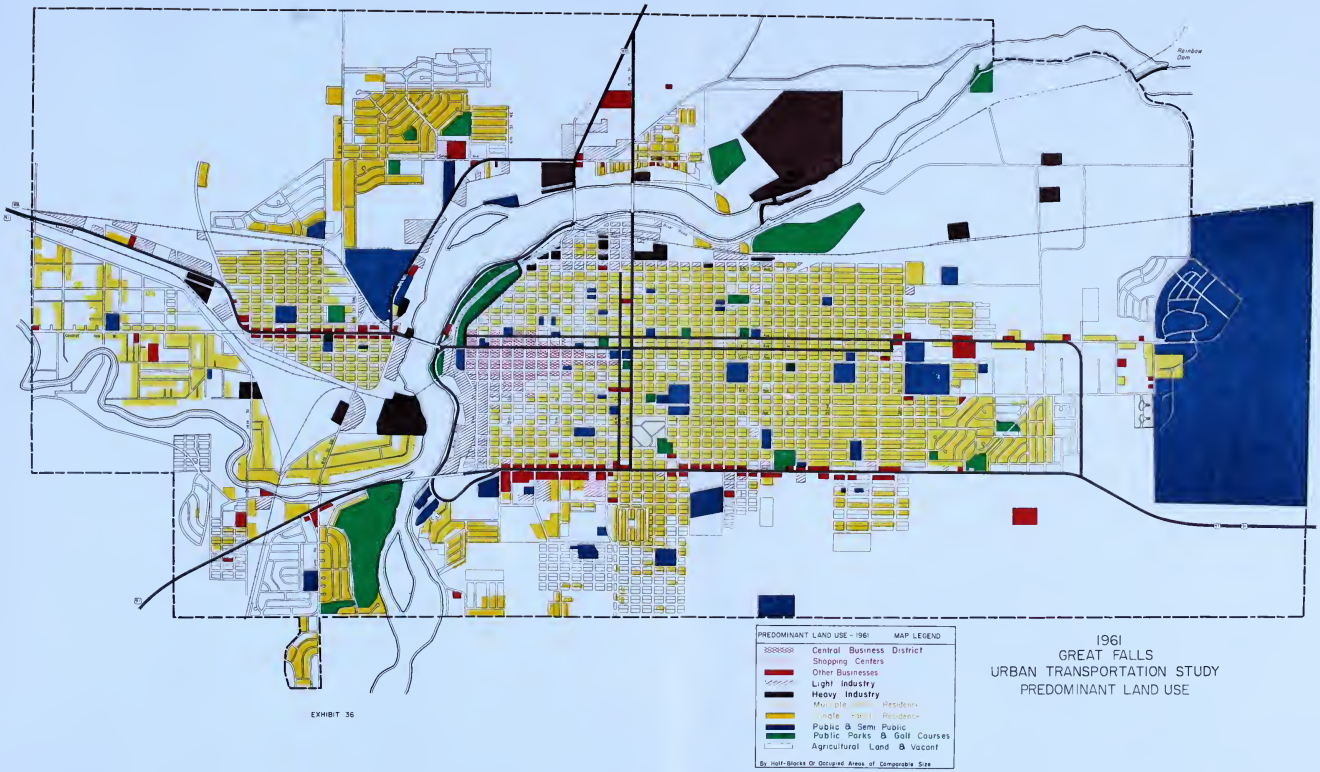


EXHIBIT 36

1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
PREDOMINANT LAND USE

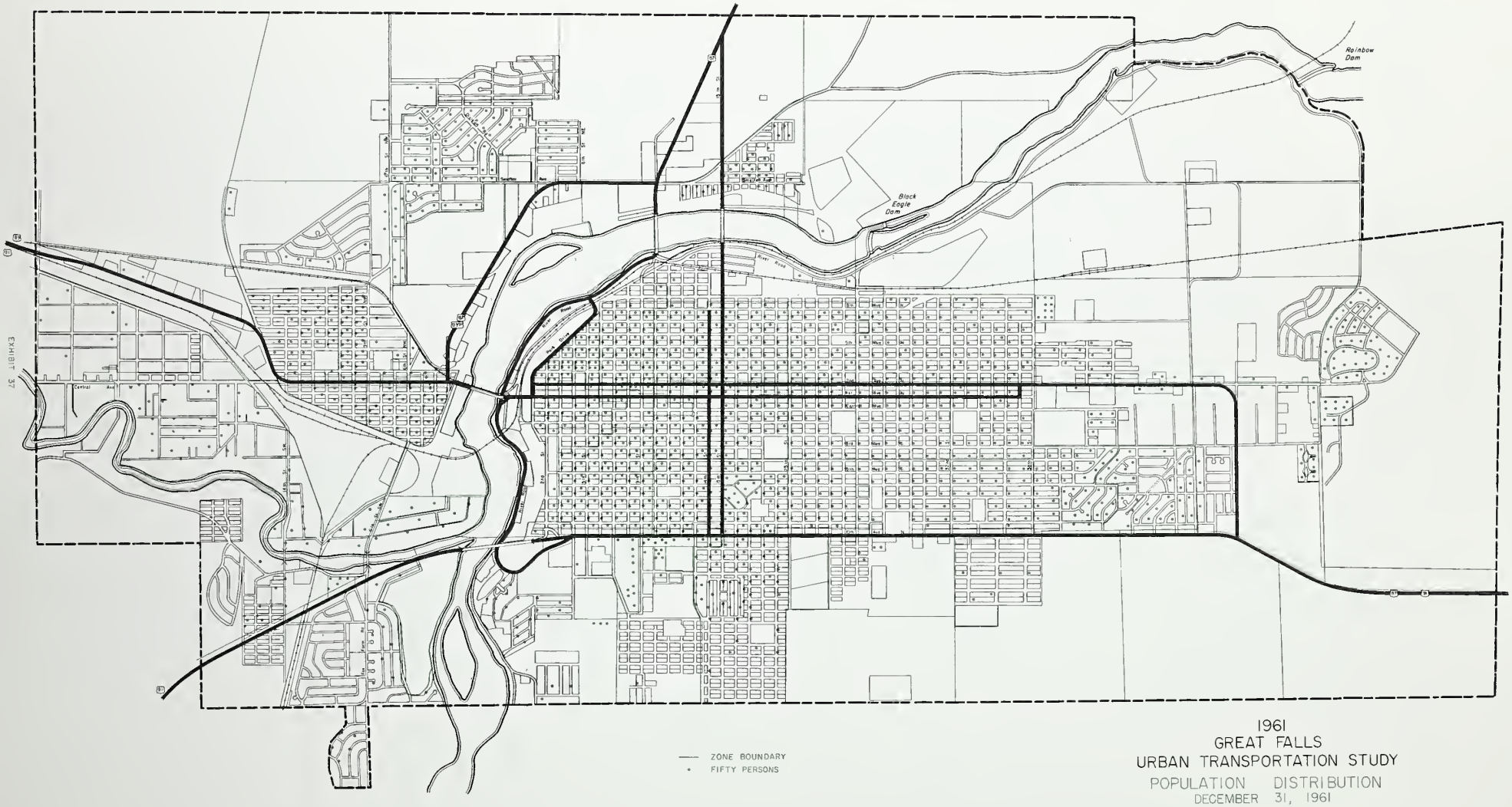
The number of dwelling units by type and length of residence of head of household is summarized as follows:

Dwelling Units		1 Yr or	13 mo to	49 mo to	Over
Type	Number	Less	4 yrs	8 yrs.	8 yrs
Single Detached*	14,622	4,123	3,772	2,340	4,387
Single Attached	2,477	1,345	592	198	342
2-4 Apartments	2,500	1,225	540	208	527
5-19 Apartments	1,500	693	393	210	204
20 or more Apartments	572	252	120	86	114
Rooming Houses - Barracks	1,453	857	589		7
Hotels	619	275	155	112	77
Motels	48	38	10		
Rest Homes - Institutions	24				24
TOTAL	23,815	8,808	6,171	3,154	5,682
PERCENT	100.0	37.0	25.9	13.2	23.9

* Includes Trailer Houses

PRESENT TRIP PRODUCTION

Table B-2 on page 116 indicates that about 77 percent of all trips in the Great Falls Study Area began or ended at home. To these "home based" trips may be added a substantial number of trips made to the dwelling units by delivery men, salesmen, etc. When these facts are considered, the dwelling unit and its geographical location become of prime importance in trip production and travel distribution. Exhibit 37 on page 102 illustrates the present population distribution in the Great Falls urban area. Table B-1 in the appendix shows details of the number of dwelling units, population and trips by traffic zone and census tract.


Rainbow Dam
Black Eagle Dam
Central Ave W
Smelter Ave
River Road
Sun River
Missouri River
Fox Farm Rd
Vaughn Rd
Ulm Vaughn Rd
Fox Farm Rd
Ulm Pishkun Rd
Ulm Vaughn Rd
Ulm Pishkun Rd
Ulm Vaughn Rd
Ulm Pishkun Rd
Ulm Vaughn

The type of dwelling unit, the number of persons residing in each unit and the number of passenger cars owned,as shown in the following table, are all significant variables to be considered in trip production.

Type of Dwelling Units	Percent of Total Units	Number Persons	Number Pass Car	Number of Trips Auto Dr.	Number of Trips All Trips
Single Detached	61.4	3.7	1.35	5.4	8.5
Single Attached	10.4	3.4	1.10	4.0	6.9
2-4 Apartments	10.5	2.8	1.03	4.1	6.3
5-19 Apartments	6.3	1.9	0.77	2.2	3.3
20 or more Apartments	2.4	1.5	0.60	1.5	2.4
Rooming Houses - Barracks	6.1	1.0	0.55	0.9	1.7
Hotels	2.6	1.2	0.34	0.7	1.1
Motels	0.2	3.8	0.80	4.4	5.6
Rest Homes - Institutions	0.1	1.0	0.00	0.0	0.0
AVERAGE	100.0	3.1	1.16	4.3	6.8

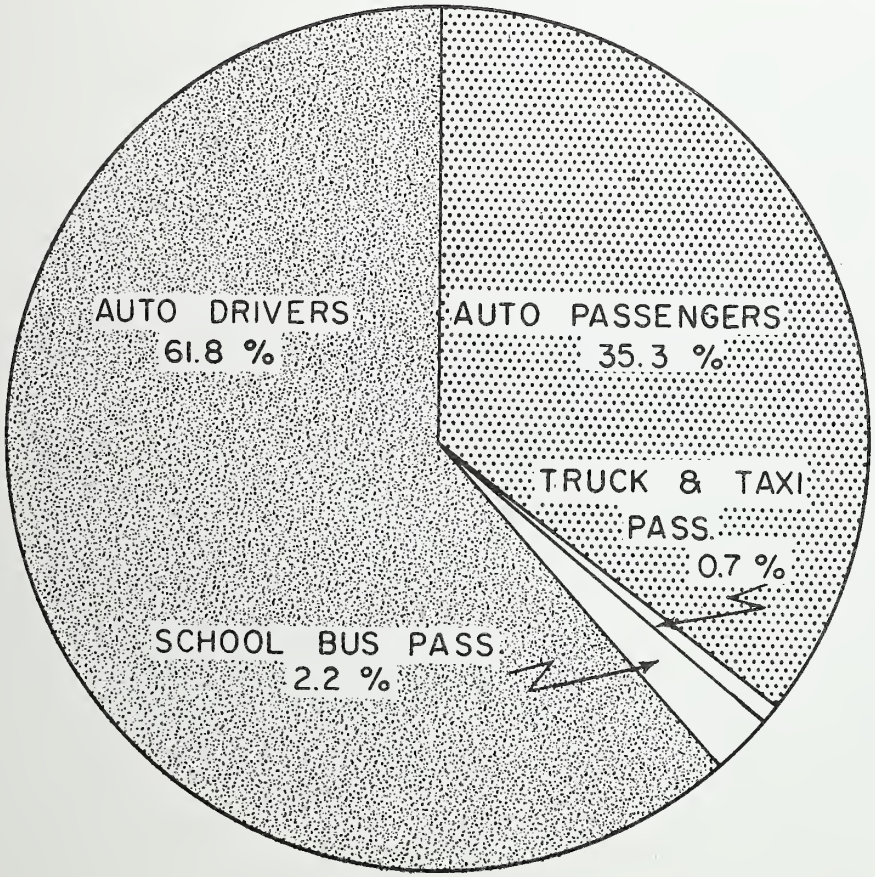
Total automobile ownership in the Great Falls Study Area amounted to 27,057 vehicles, or 1 passenger car for every 2.76 persons. This rate compares to the national average of 1 passenger car for every 2.92 persons in 1960. A further indication of the importance of automobile travel is illustrated in Exhibit 38 on page 104. Passenger cars made 83 percent of the total vehicle trips in the internal area and accounted for 97 percent of the total person trips. The remaining three percent of the person trips were made by trucks, taxis and schoolbuses.

GREAT FALLS URBAN TRANSPORTATION STUDY

INTERNAL MODES OF TRANSPORTATION

1961

PERSON TRIPS



VEHICLE TRIPS

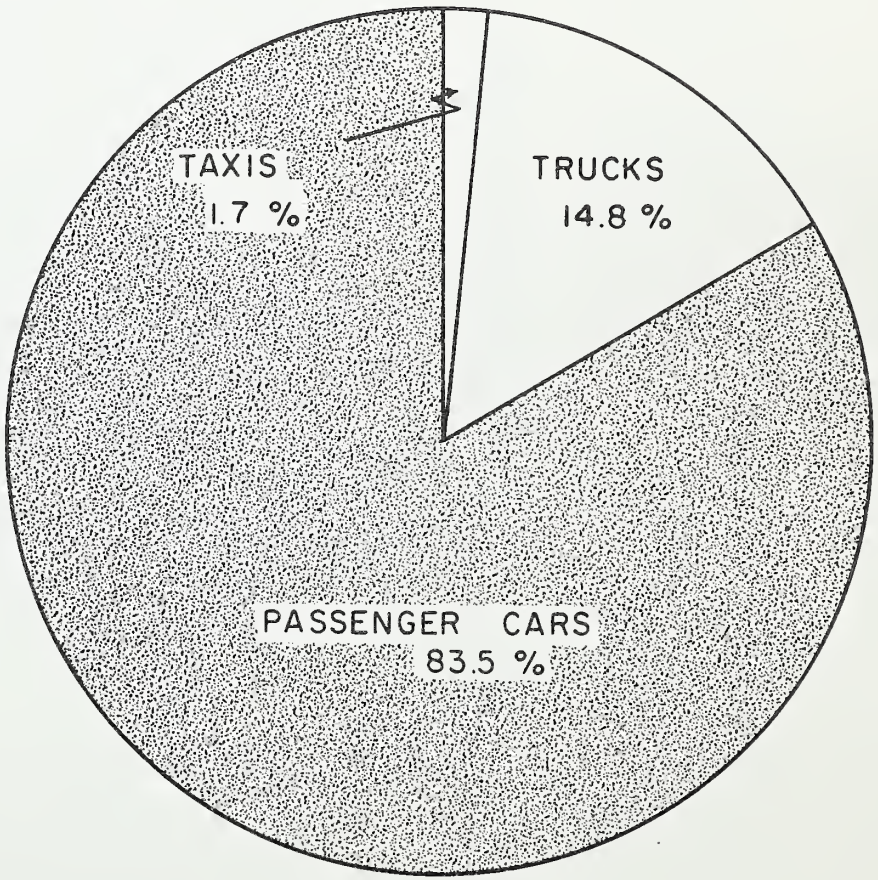
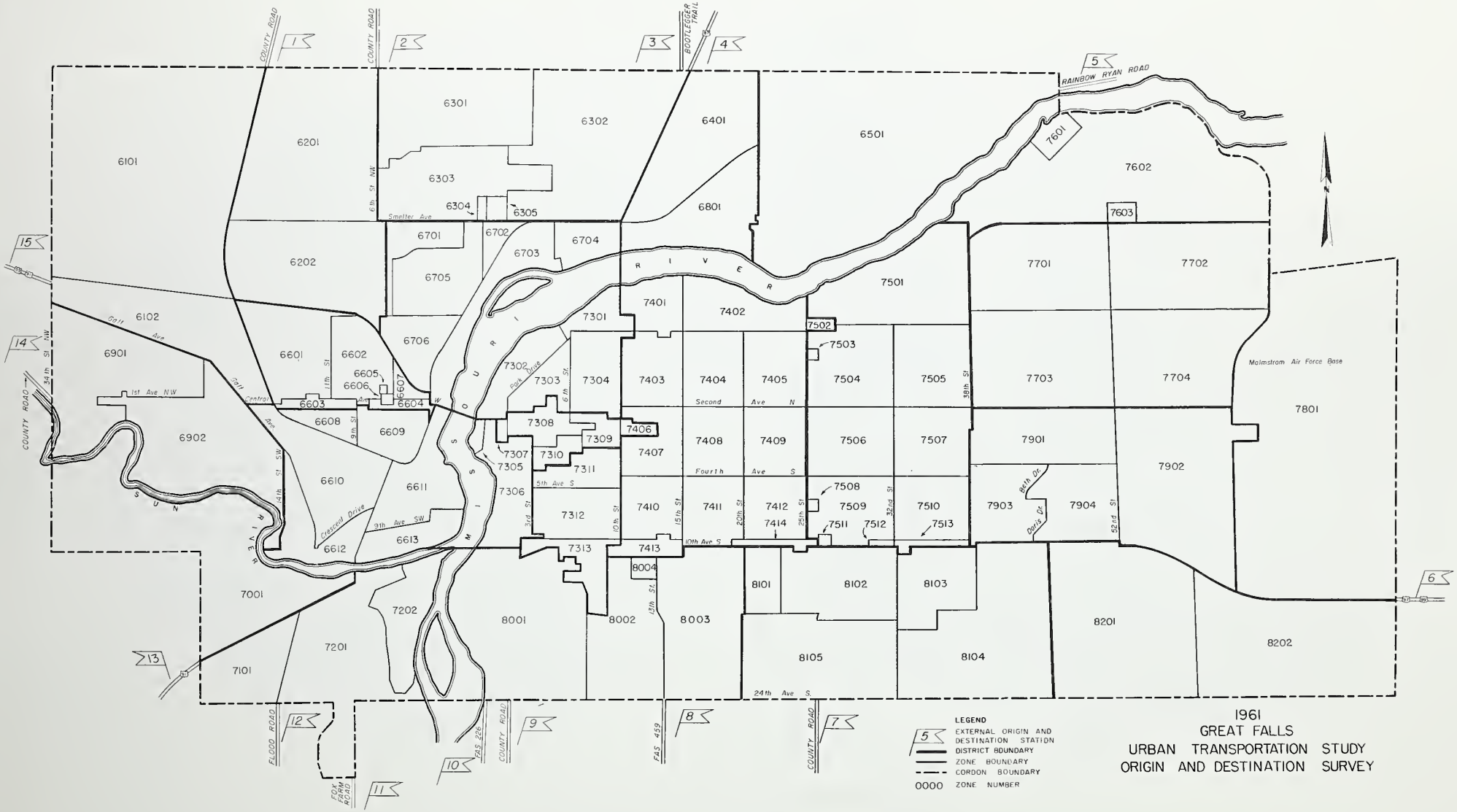


EXHIBIT 38

Appendix

Tabulations



1961
GREAT FALLS
URBAN TRANSPORTATION STUDY
ORIGIN AND DESTINATION SURVEY

Great Falls Urban Transportation Study
Comparion of All Vehicles Crossing
The Missouri River Screen Line
1961

Toble A-1 Poss. Cors

Hour Period	Exponded Trip Doto			Ground Count	Percent of Ground Count
	Internol	Externol	Totol		
6:00-6:59A	646	298	944	665	141.9
7:00 - 7:59	1,551	507	2,058	1,768	116.4
8:00 - 8:59	1,164	472	1,636	1,948	84.0
9:00 - 9:59	640	456	1,096	1,407	77.9
10:00 - 10:59	1,249	566	1,815	1,614	112.5
11:00 - 11:59	1,233	545	1,778	1,840	96.6
12:00 - 12:59P	1,954	530	2,484	2,160	115.0
1:00 - 1:59	1,433	519	1,952	2,083	93.7
2:00 - 2:59	1,363	597	1,960	2,063	95.0
3:00 - 3:59	1,654	634	2,288	2,247	101.8
4:00 - 4:59	2,202	926	3,128	2,943	106.3
5:00 - 5:59	2,388	764	3,152	3,036	103.8
6:00 - 6:59	1,310	585	1,895	2,153	88.0
7:00 - 7:59	1,905	544	2,449	2,216	110.5
8:00 - 8:59	1,407	563	1,970	2,007	98.2
9:00 - 9:59	788	482	1,270	1,614	78.7
Total	22,887	8,988	31,875	31,764	100.3

Toble A-2 Trucks

Hour Period	Exponded Trip Doto			Ground Count	Percent of Ground Count
	Internol	Externol	Totol		
6:00-6:59A	75	111	186	140	132.8
7:00 - 7:59	328	233	561	588	95.4
8:00 - 8:59	374	229	603	613	98.4
9:00 - 9:59	369	180	549	609	90.1
10:00-10:59	361	164	525	614	85.5
11:00 - 11:59	353	159	512	546	93.8
12:00-12:59P	290	173	463	525	88.2
1:00 - 1:59	353	144	497	575	86.4
2:00 - 2:59	370	165	535	551	97.1
3:00 - 3:59	336	185	521	631	82.6
4:00 - 4:59	428	248	676	791	85.5
5:00 - 5:59	349	227	576	558	96.9
6:00 - 6:59	97	161	258	356	72.5
7:00 - 7:59	25	88	113	248	45.6
8:00 - 8:59	25	67	92	186	49.5
9:00 - 9:59	17	54	71	144	49.3
Total	4,150	2,588	6,738	7,675	87.8

Toble A-3 Toxis

Hour Period	Exponded Trip Doto			Ground Count	Percent of Ground Count
	Internol	Externol	Totol		
6:00-6:59A	10		10	23	43.5
7:00 - 7:59	19		19	17	111.8
8:00 - 8:59	20		20	28	71.4
9:00 - 9:59	18		18	19	94.7
10:00 - 10:59	17		17	27	63.0
11:00 - 11:59	17		17	24	70.8
12:00-12:59P	17		17	25	68.0
1:00 - 1:59	15		15	19	78.9
2:00 - 2:59	26		26	27	96.3
3:00 - 3:59	25		25	33	75.8
4:00 - 4:59	28		28	25	112.0
5:00 - 5:59	25		25	25	100.0
6:00 - 6:59	20		20	16	125.0
7:00 - 7:59	17		17	14	121.4
8:00 - 8:59	13		13	17	76.5
9:00 - 9:59	11		11	12	91.7
Total	298		298	351	84.9

Toble A-4 Summory All Vehicles

Hour Period	Exponded Trip Doto			Ground Count	Percent of Ground Count
	Internol	Externol	Totol		
6:00-6:59A	731	409	1,140	828	137.7
7:00 - 7:59	1,898	740	2,638	2,373	111.2
8:00 - 8:59	1,558	701	2,259	2,589	87.3
9:00 - 9:59	1,027	636	1,663	2,035	81.7
10:00 - 10:59	1,627	730	2,357	2,255	104.5
11:00 - 11:59	1,603	704	2,307	2,410	95.7
12:00-12:59P	2,261	703	2,964	2,710	109.4
1:00 - 1:59	1,801	663	2,464	2,677	92.0
2:00 - 2:59	1,759	762	2,521	2,641	95.5
3:00 - 3:59	2,015	819	2,834	2,911	97.4
4:00 - 4:59	2,658	1,174	3,832	3,759	101.9
5:00 - 5:59	2,762	991	3,753	3,619	103.7
6:00 - 6:59	1,427	746	2,173	2,525	86.1
7:00 - 7:59	1,947	632	2,579	2,478	104.1
8:00 - 8:59	1,445	630	2,075	2,210	93.9
9:00 - 9:59	816	536	1,352	1,770	76.4
Total	27,335	11,576	38,911	39,790	97.8

Great Falls Urban Transportation Study

Table B-1

1961

Comparison Of Home Interview Data With Census Data

Tract & Zone		1961 Census Data			1961 Home Interview Survey Data												
Tract A																	
Urban	Corporate Limits	Number Dwellings	Number Persons	Persons Per Dwelling	Number Interviews	Number Dwellings	Number Persons	No. Persons 5 Years & Older	Persons 5 Yrs & Older Making Trips	Number Poss. Cars	Poss Cars Per Dwell	Poss Cars Per Person	Total Auto Driver Trips	Auto Driver Trips Per Dwell	Total All Trips	All Trips Per Dwell	Persons Per Dwell
	7301	12	38	3.2	2	13	52	26	13	13	1.0	0.25	65	5.0	65	5.0	4.0
	7302	9	28	3.1	1	6	18	18	12	12	2.0	0.66	34	5.6	34	5.6	3.0
	7303	934	1,691	1.8	140	910	2,002	1,820	1,001	819	0.9	0.41	2,366	2.6	3,458	3.8	2.2
	7304	837	2,138	2.6	134	871	2,265	2,003	1,132	871	1.0	0.38	3,136	3.6	4,442	5.1	2.6
	7308																
	7401	12	34	2.8	2	13	40	35	22	16	1.2	0.40	59	4.5	88	6.8	3.1
	7402	30	99	3.3	5	32	106	106	42	48	1.5	0.45	154	4.8	186	5.8	3.3
	7403	972	2,531	2.6	135	878	2,722	2,195	1,493	966	1.1	0.35	3,863	4.4	6,146	7.0	3.1
	7404	631	1,969	3.1	108	702	2,106	1,895	1,264	772	1.1	0.37	3,019	4.3	4,633	6.6	3.0
	7405	545	1,777	3.3	95	617	1,974	1,728	1,049	740	1.2	0.37	3,085	5.0	4,874	7.9	3.2
	7501																
	7502																
	7503																
	7504	656	2,225	3.3	105	682	2,464	2,233	1,300	1,080	1.6	0.44	3,982	5.8	6,159	9.0	3.6
	7505	556	1,981	3.5	88	572	2,024	1,769	1,196	802	1.4	0.39	3,794	6.6	5,642	9.9	3.5
7601		8	26	3.2	1	7	28	21	14	7	1.0	0.25	14	2.0	28	4.0	4.0
7602																	
7603		2	6	3.0	2	6	30	24	24	12	2.0	0.40	12	2.0	72	12.0	5.0
7701		1	12	1.7													
7702																	
	7703	194	809	4.2	40	260	1,222	988	468	364	1.4	0.29	1,274	4.9	2,002	7.7	4.6
7703		53	220			46	184	120	97	41	0.9	0.21	184	4.0	290	6.3	4.0
7704		26	83														
Subtotal Corporate Limits		5,388	15,320	2.8	855	5,556	16,995	14,816	8,992	6,503	1.2	0.38	24,831	4.5	37,729	6.8	3.1
Subtotal Urban Area		96	347	3.6	9	59	242	165	135	60	1.0	0.25	210	3.6	390	6.6	4.1
TOTAL-TRACT A		5,484	15,667	2.9	864	5,615	17,237	14,981	9,127	6,563	1.2	0.38	25,041	4.5	38,119	6.8	3.1
CENSUS TRACT B																	
	7409	425	1,272	3.0	69	407	1,262	1,140	692	570	1.4	0.45	2,239	5.5	3,378	8.3	3.1
	7412	397	1,386	3.5	65	384	1,306	1,152	845	499	1.3	0.38	2,304	6.0	3,648	9.5	3.4
	7414																
	7506	621	1,969	3.2	97	572	1,830	1,659	858	744	1.3	0.41	2,460	4.3	3,604	6.4	3.2

Great Falls Urban Transportation Study

Table B-1

1961

Comparison Of Home Interview Data With Census Data

Tract & Zone		1961 Census Data			1961 Home Interview Survey Data												
Tract B																	
Urban	Corporate Limits	Number Dwellings	Number Persons	Persons Per Dwelling	Number Interviews	Number Dwellings	Number Persons	No. Persons 5 Years & Older	Persons 5 Yrs & Older Making Trips	Number Poss. Cars	Poss Cars Per Dwell	Poss Cars Per Person	Total Auto Driver Trips	Auto Driver Trips Per Dwell	Total All Trips	All Trips Per Dwell	Persons Per Dwell
	7507	412	1,526	3.7	63	372	1,488	1,265	707	484	1.3	0.33	1,786	4.8	2,678	7.2	4.0
	7508																
	7509	401	1,551	3.9	65	384	1,421	1,267	998	576	1.5	0.41	3,264	8.5	4,954	12.9	3.7
	7510	335	1,381	4.1	55	325	1,332	1,203	683	520	1.6	0.39	2,145	6.6	3,055	9.4	4.1
	7511																
	7512																
	7513																
7901		25	110	4.4	8	47	136	108	42	38	0.8	0.26	118	2.5	179	3.8	2.9
	7901	65	239	3.7	13	77	354	246	123	108	1.4	0.31	339	4.4	477	6.2	4.6
7902		240	864	3.6	40	236	1,180	1,015	873	283	1.2	0.24	1,251	5.3	2,856	12.2	5.0
	7903	436	1,862	4.3	75	443	1,905	1,595	1,063	665	1.5	0.35	2,835	6.4	4,386	9.9	4.3
	7904	340	1,360	4.0	61	358	1,575	1,325	931	573	1.6	0.36	2,220	6.2	4,010	11.2	4.4
8101					2	12	12	12									1.0
8102		70	196	2.8	10	59	153	136	112	65	1.1	0.43	236	4.0	330	5.6	2.6
	8102	22	63	2.9	2	12	66	35	23	18	1.5	0.27	72	6.0	180	15.0	5.5
	8103	71	273	3.8	10	59	230	201	171	71	1.2	0.31	319	5.4	791	13.4	3.9
8104																	
8105																	
8201																	
8202																	
Subtotal Corporate Limits		3,525	12,882	3.7	575	3,393	12,769	11,088	7,094	4,828	1.4	0.38	19,983	5.9	31,161	9.2	3.8
Subtotal Urban Area		335	1,170	3.5	60	354	1,481	1,271	1,027	386	1.1	0.26	1,605	4.5	3,365	9.5	4.2
TOTAL-TRACT B		3,860	14,052	3.6	635	3,747	14,250	12,359	8,121	5,214	1.4	0.37	21,588	5.8	34,526	9.2	3.8
CENSUS TRACT C																	
	7303	253	327	1.3	42	286	343	343	143	143	0.5	0.42	343	1.2	543	1.9	1.2
	7304	150	327	2.2	35	238	476	405	167	95	0.4	0.20	309	1.3	690	2.9	2.0
	7305																
	7306	167	244	1.5	29	197	335	315	99	99	0.5	0.30	177	0.9	276	1.4	1.7
	7307																
	7308	806	931	1.2	94	639	831	831	256	256	0.4	0.31	511	0.8	767	1.2	1.3
	7309	184	291	1.6	28	190	285	285	114	95	0.5	0.33	266	1.4	532	2.8	1.5

Great Falls Urban Transportation Study

Table B - I

1961

Comparison Of Home Interview Data With Census Data

Tract & Zone		1961 Census Data			1961 Home Interview Survey Data												
Tract C																	
Urban	Corporate Limits	Number Dwellings	Number Persons	Persons Per Dwelling	Number Interviews	Number Dwellings	Number Persons	No. Persons 5 Years & Older	Persons 5 Yrs & Older Making Trips	Number Pass. Cars	Pass Cars Per Dwell	Pass Cars Per Person	Total Auto Driver Trips	Auto Driver Trips Per Dwell	Total All Trips	All Trips Per Dwell	Persons Per Dwell
	7310	214	249	1.2	25	170	187	187	85	34	0.2	0.18	153	0.9	272	1.6	1.1
	7311	662	1,628	2.5	105	714	1,856	1,642	857	642	0.9	0.35	1,785	2.5	2,927	4.1	2.6
	7312	902	2,674	3.0	148	1,006	3,018	2,616	1,610	905	0.9	0.30	3,923	3.9	6,137	6.1	3.0
	7313	76	260	3.4	20	136	585	435	231	150	1.1	0.26	653	4.8	1,020	7.5	4.3
	7406	23	49	2.1	7	48	58	58	58	38	0.8	0.66	154	3.2	216	4.5	1.2
	7407	617	1,642	2.7	99	673	1,884	1,683	1,077	673	1.0	0.36	2,894	4.3	4,442	6.6	2.8
	7408	511	1,381	2.7	82	558	1,674	1,507	1,116	725	1.3	0.43	3,571	6.4	5,747	10.3	3.0
	7410	542	1,651	3.0	88	598	1,914	1,674	1,136	770	1.3	0.40	3,528	5.9	5,382	9.0	3.2
	7411	485	1,613	3.3	96	653	2,155	1,763	1,045	588	0.9	0.27	2,939	4.5	4,702	7.2	3.3
	7413	225	657	2.9	35	238	714	571	381	286	1.2	0.40	1,047	4.4	1,499	6.3	3.0
	7414																
	8001	147	578	3.9	24	163	619	489	408	245	1.5	0.25	978	6.0	1,516	9.3	3.8
8001		115	371	3.2	19	129	593	464	374	181	1.4	0.31	980	7.6	1,742	13.5	4.6
	8002	42	148	3.5	8	54	194	135	113	59	1.1	0.33	286	5.3	464	8.6	3.6
8002		35	128	3.7	8	54	200	184	124	81	1.5	0.41	378	7.0	535	9.9	3.7
	8003	571	2,131	3.7	96	653	2,547	2,090	1,306	980	1.5	0.38	3,592	5.5	5,093	7.8	3.9
8003		69	258	3.7	7	48	206	158	62	53	1.1	0.26	149	3.1	221	4.6	4.3
	8004																
Subtotal Corporate Limits		6,577	16,781	2.6	1,061	7,214	19,675	17,029	10,202	6,783	0.9	0.34	27,109	3.8	42,225	5.9	2.7
Subtotal Urban Area		219	757	3.5	34	231	999	806	560	315	1.4	0.32	1,507	6.5	2,498	10.8	4.3
TOTAL-TRACT C		6,796	17,538	2.6	1,095	7,445	20,674	17,835	10,762	7,098	1.0	0.34	28,616	3.8	44,723	6.0	2.8
CENSUS TRACT D																	
6101																	
6102		25	95	3.8	2	14	42	35	14	28	2.0	0.67	42	3.0	56	4.0	3.0
	6102	15	53	3.5	2	14	42	42	21	21	1.5	0.50	56	4.0	70	5.0	3.0
6201		42	168	4.0	6	42	168	134	63	50	1.2	0.30	210	5.0	294	7.0	4.0
6202		33	135	4.1	13	91	419	291	173	118	1.3	0.28	592	6.5	937	10.3	4.6
	6202	70	298	4.3	15	105	462	357	252	147	1.4	0.32	546	5.2	1,029	9.8	4.4
6301		20	40	2.0	3	21	78	42	27	21	1.0	0.27	111	5.3	153	7.3	3.7
6302		18	79														
6303		13	26	2.0	5	35	196	175	98	56	1.6	0.29	231	6.6	378	10.8	5.6

Great Falls Urban Transportation Study

Table B-1

1961

Comparison Of Home Interview Data With Census Data

Tract & Zone		1961 Census Data			1961 Home Interview Survey Data												
Tract D																	
Urban	Corporate Limits	Number Dwellings	Number Persons	Persons Per Dwelling	Number Interviews	Number Dwellings	Number Persons	No. Persons 5 Years & Older	Persons 5 Yrs & Older Making Trips	Number Pass. Cars	Pass Cars Per Dwell	Pass Cars Per Person	Total Auto Driver Trips	Auto Driver Trips Per Dwell	Total All Trips	All Trips Per Dwell	Persons Per Dwell
	6303	616	2,279	3.7	122	854	3,758	2,904	2,306	1,196	1.4	0.32	5,380	6.3	8,540	10.0	4.4
	6304																
6305																	
6401																	
6501		21	71														
6601																	
	6601	472	1,737	3.7	73	511	1,942	1,584	1,278	664	1.3	0.34	2,708	5.3	4,497	8.8	3.8
	6602	542	1,980	3.6	68	476	1,714	1,428	857	666	1.4	0.39	1,904	4.0	3,475	7.3	3.6
	6603	43	117	2.7	6	42	118	109	101	42	1.0	0.36	344	8.2	563	13.4	2.8
	6604	33	127	3.2	8	56	218	185	95	73	1.3	0.33	269	4.8	336	6.0	3.9
	6605																
	6606																
	6607	30	75	3.2	7	49	176	162	83	64	1.3	0.36	235	4.8	294	6.0	3.9
	6608	132	409	3.1	22	154	477	416	293	154	1.0	0.32	539	3.5	1,140	7.4	3.1
	6609	530	1,585	3.0	82	574	1,722	1,550	689	574	1.0	0.33	1,722	3.0	2,526	4.4	3.0
	6610																
	6611	39	134	3.5	5	35	154	119	81	35	1.0	0.23	116	3.3	196	5.6	4.4
6612																	
	6612	132	449	3.4	26	182	601	528	382	237	1.3	0.39	801	4.4	1,329	7.3	3.3
	6613	123	426	3.5	16	112	347	325	258	134	1.2	0.39	526	4.7	1,019	9.1	3.1
	6701	168	719	4.3	27	189	775	605	340	246	1.3	0.32	907	4.8	1,361	7.2	4.1
6702																	
6703		22	75	3.4	3	21	78	42	40	21	1.0	0.27	111	5.3	153	7.3	3.7
	6703	7	14	2.0	7	7	14	14	14	7	1.0	0.50	32	4.5	46	6.5	2.0
6704																	
6705																	
6706																	
6801		487	1,589	3.3	61	427	1,751	1,452	811	555	1.3	0.32	1,793	4.2	2,776	6.5	4.1
6901		77	377	4.9	11	77	377	300	85	116	1.5	0.31	262	3.4	269	3.5	4.9
	6902	324	1,138	3.5	55	385	1,386	1,194	886	539	1.4	0.39	2,349	6.1	3,927	10.2	3.6
7001		89	256	2.9	12	84	336	302	277	143	1.7	0.43	664	7.9	1,033	12.3	4.0
	7001	30	94	3.1	19	133	492	412	213	160	1.2	0.33	372	2.8	638	4.8	3.7

Great Falls Urban Transportation Study

Table B-1

1961

Comparison Of Home Interview Data With Census Data

Tract & Zone		1961 Census Data			1961 Home Interview Survey Data												
Tract D																	
Urban	Corporate Limits	Number Dwellings	Number Persons	Persons Per Dwelling	Number Interviews	Number Dwellings	Number Persons	No Persons 5 Years & Older	Persons 5 Yrs & Older Making Trips	Number Pass Cars	Pass Cars Per Dwell	Pass Cars Per Person	Total Auto Driver Trips	Auto Driver Trips Per Dwell	Total All Trips	All Trips Per Dwell	Persons Per Dwell
7101		7	28	4.0	1	7	28	28	21	7	1.0	0.25	84	12.0	112	16.0	4.0
7201																	
	7201	251	803	3.2	37	259	803	699	414	466	1.8	0.58	1,761	6.8	2,590	10.0	3.1
7202																	
Subtotal Corporate Limits		3,557	12,437	3.5	591	4,137	15,201	12,633	8,563	5,425	1.3	0.36	20,567	5.0	33,576	8.1	3.7
Subtotal Urban Area		854	2,939	3.4	117	819	3,473	2,801	1,609	1,115	1.4	0.32	4,100	5.0	6,161	7.5	4.2
TOTAL-TRACT D		4,411	15,376	3.5	708	4,956	18,674	15,434	10,172	6,540	1.3	0.35	24,667	5.0	39,737	8.0	3.8
CENSUS TRACT X																	
7801		2,052	3,900	1.9	270	2,052	3,900	3,488	2,142	1,642	0.8	0.24	2,668	1.3	5,746	2.8	1.9
TOTAL CORPORATE LIMITS		19,047	57,420	3.0	3,082	20,300	64,640	55,566	34,851	23,539	1.2	0.36	92,490	4.6	144,691	7.1	3.2
TOTAL URBAN AREA		3,556	9,113	2.6	490	3,515	10,095	8,531	5,473	3,518	1.0	0.35	10,090	2.9	18,160	5.2	2.9
GRAND TOTAL		22,603	66,533	2.9	3,572	23,815	74,735	64,097	40,324	27,057	1.1	0.36	102,580	4.3	162,851	6.8	3.1

Great Falls Urban Transportation Study

1961

Land Use By Traffic Zones

Zone	Owellings		Persons		Residential		Commercial		Industrial		Streets And Alleys		Public And Semi Public		Undeveloped		Total
	Number	Per Res Acre	Number	Per Res Acre	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres
6101									6.9	0.8	5.3	0.6			851.8	98.6	864.0
6102	28	3.3	84	9.9	8.5	2.8	2.0	0.6	93.2	30.7	27.0	8.9			173.3	57.0	304.0
6201	42	4.4	168	17.5	9.6	1.7									542.4	98.3	552.0
6202	196	4.7	881	21.3	41.3	10.8	2.8	0.7	6.1	1.6	23.5	6.1	19.6	5.1	290.7	75.7	384.0
6301	21	6.0	78	22.3	3.5	1.0					4.5	1.4	5.5	1.6	326.5	96.0	340.0
6302	18	4.9	79	21.4	3.7	0.7			12.0	2.2	20.7	3.8			503.6	93.3	540.0
6303	889	5.4	3954	24.0	164.6	60.5	0.4	0.1	0.4	0.1	67.8	24.9	21.1	7.8	17.7	6.6	272.0
6304							4.0	54.8			0.9	12.3			2.4	32.9	7.3
6305							7.5	54.7			0.6	4.4			5.6	40.9	13.7
6401							16.0	4.9	22.0	6.8	17.7	5.5			268.3	82.8	324.0
6501	21	5.0	71	16.9	4.2	0.4			250.0	22.4	15.2	1.4	34.0	3.1	796.6	72.4	1100.0
6601	511	6.0	1942	22.7	85.5	39.7	1.9	0.9	6.1	2.8	62.8	29.1	12.9	6.0	46.3	21.5	215.5
6602	476	9.9	1714	35.6	48.1	37.6	0.5	0.4	3.1	2.4	40.2	31.4	8.3	6.5	27.8	21.7	128.0
6603	42	12.7	118	35.8	3.3	13.7	3.6	15.0	2.4	10.0	8.2	34.2			6.5	27.1	24.0
6604	56	19.3	218	75.2	2.9	16.3	6.5	36.5	1.0	5.6	6.6	37.1	0.3	1.7	0.5	2.8	17.8
6605							1.4	87.5			0.2	12.5					1.6
6606							2.0	50.0	0.5	12.5	1.5	37.5					4.0
6607	49	16.3	176	58.7	3.0	17.5	0.9	5.2	6.4	37.2	2.6	15.1			4.3	25.0	17.2
6608	154	9.1	477	28.2	16.9	39.1	0.7	1.6			10.3	23.9			15.3	35.4	43.2
6609	574	11.5	1722	34.5	49.9	55.1	1.1	1.2			32.2	35.5	6.4	7.1	1.0	1.1	90.6
6610									96.0	42.1	1.7	0.7			130.3	57.2	228.0
6611	35	4.9	154	21.4	7.2	4.2			100.5	58.4	11.2	6.5			53.1	30.9	172.0
6612	182	5.4	601	17.9	33.5	27.9	1.0	0.8	1.8	1.5	18.2	15.2			65.5	54.6	120.0
6613	112	5.1	347	15.7	22.1	26.3			0.7	0.8	9.5	11.3			51.7	61.6	84.0
6701	189	4.6	775	19.2	40.3	59.3					9.3	13.7	15.2	22.3	3.2	4.7	68.0
6702							0.9	3.2			4.4	15.7	12.4	44.3	10.3	36.8	28.0
6703	28	7.2	92	23.6	3.9	2.6	1.5	1.0	56.6	37.2	10.3	6.8	10.8	7.1	68.9	45.3	152.0
6704									27.2	37.8	2.9	4.0			41.9	58.2	72.0
6705									19.7	11.5	3.0	1.7			149.3	86.8	172.0
6706													92.0	100.0			92.0
6801	427	9.3	1751	38.1	45.9	21.6	3.0	1.4	22.1	10.4	45.6	21.5	3.7	17.5	91.7	43.3	212.0
6901	77	2.3	377	11.5	32.8	8.9	3.4	0.9			35.5	9.7	4.6	1.2	291.7	79.3	368.0
6902	385	7.0	1386	25.1	55.2	13.7	2.8	0.7	7.4	1.8	47.7	11.8	2.8	0.7	288.1	71.3	404.0
7001	217	9.9	828	37.8	21.9	3.2	3.3	0.5	4.4	0.6	40.0	5.8			618.4	89.9	688.0

Great Falls Urban Transportation Study

1961

Land Use By Traffic Zones

Zone	Dwellings		Persons		Residential		Commercial		Industrial		Streets And Alleys		Public And Semi Public		Undeveloped		Total
	Number	Per Res Acre	Number	Per Res Acre	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres
7101	7	5.8	28	23.3	1.2	0.8	1.1	0.7	7.3	4.8	11.1	7.3	0.5	0.3	130.8	86.1	152.0
7201	259	6.1	803	18.8	42.8	11.6	6.6	1.8	7.3	2.0	50.8	13.8	8.6	2.3	251.9	68.5	368.0
7202							1.1	0.8			6.6	4.9	128.3	94.3			136.0
7301	13	3.6	52	14.4	3.6	6.0			23.2	38.7	10.1	16.8			23.1	38.5	60.0
7302	6	4.3	18	12.8	1.4	1.5	1.4	1.5	20.0	22.0	15.4	17.0	52.8	58.0			91.0
7303	1196	33.7	2345	66.1	35.5	50.5	2.7	3.8			29.0	41.3	2.1	3.0	1.0	1.4	70.3
7304	1109	18.9	2741	46.8	58.6	51.1	2.2	1.9	2.9	2.5	44.1	38.5	5.9	5.1	1.0	0.9	114.7
7305											3.1	28.7	7.7	71.3			10.8
7306	197	48.0	335	81.7	4.1	2.8	2.2	1.5	88.4	59.7	28.4	19.2	0.6	0.4	24.3	16.4	148.0
7307											2.1	28.8	5.2	71.2			7.3
7308	639	168.2	831	218.7	3.8	6.0	30.3	47.6			25.5	40.1	4.0	6.3			63.6
7309	190	76.0	285	114.0	2.5	7.0	14.5	40.7	0.5	1.4	14.7	41.3	2.2	6.2	1.2	3.4	35.6
7310	170	73.9	187	81.3	2.3	7.8	8.1	27.3	3.3	11.1	13.7	46.1	0.9	3.0	1.4	4.7	29.7
7311	714	18.5	1856	48.1	38.6	51.3	2.7	3.6	2.0	2.7	29.5	39.2			2.4	3.2	75.2
7312	1006	14.4	3018	43.2	69.8	56.9	1.9	1.4	0.6	0.5	47.8	39.0	0.2	0.2	2.4	2.0	122.7
7313	136	16.3	585	70.5	8.3	10.1	9.2	11.2	12.6	15.4	21.9	26.7			30.0	36.6	82.0
7401	13	5.2	40	16.1	2.5	2.9			45.6	53.4	11.0	12.9			26.3	30.8	85.4
7402	32	5.9	106	19.6	5.4	3.8	0.7	0.5	80.4	55.8	10.6	7.4	0.5	0.3	46.4	32.2	144.0
7403	878	12.9	2722	39.9	68.2	54.7	2.2	1.8	0.5	0.4	48.5	38.9	3.5	2.8	1.7	1.4	124.6
7404	702	9.7	2106	29.1	72.4	56.3	1.0	0.8			50.3	39.1	3.1	2.5	1.7	1.3	128.6
7405	617	9.5	1974	30.3	65.2	50.7	0.5	0.4			49.0	38.1	9.7	7.5	4.2	3.3	128.6
7406	48	48.0	58	58.0	1.0	7.2	4.3	31.2			7.3	52.9	0.5	3.6	0.7	5.1	13.8
7407	673	14.8	1884	41.3	45.6	43.5	3.9	3.7			40.9	39.0	12.9	12.3	1.5	1.5	104.8
7408	558	10.2	1674	30.5	54.9	46.3	0.7	0.6			41.7	35.1	19.7	16.6	1.7	1.4	118.7
7409	407	6.9	1262	21.2	59.4	50.0	0.8	0.7			42.9	36.2	13.6	11.5	1.9	1.6	118.6
7410	598	11.1	1914	35.6	53.7	50.3	1.0	0.9			40.5	37.9	8.3	7.8	3.3	3.1	106.8
7411	653	10.0	2155	33.2	65.0	55.7	1.0	0.9			36.5	31.3	8.7	7.4	5.5	4.7	116.7
7412	384	6.3	1306	21.3	61.4	56.4					39.9	36.7			7.5	6.9	108.8
7413	238	49.6	714	148.8	4.8	13.3	16.8	46.7			11.1	30.8			3.3	9.2	36.0
7414							8.7	44.6			7.0	35.9			3.8	19.5	19.5
7501									39.4	12.8	20.6	6.7	114.0	37.0	134.0	43.5	308.0
7502									8.4	77.8	1.3	12.0			1.1	10.2	10.8
7503							2.6	65.0			1.4	35.0					4.0
7504	682	6.8	2464	24.6	100.2	53.8			1.6	0.9	70.5	38.0	5.2	2.8	8.4	4.5	185.9

Great Falls Urban Transportation Study

1961

Land Use By Traffic Zones

Zone	Dwellings		Persons		Residential		Commercial		Industrial		Streets And Alleys		Public And Semi Public		Undeveloped		Total Acres
	Number	Per Res Acre	Number	Per Res Acre	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	
7505	572	6.3	2024	22.4	90.5	54.6	0.7	0.4			61.4	36.9	0.3	0.2	13.1	7.9	166.0
7506	572	6.1	1830	19.5	93.8	56.4	0.1	0.1			64.7	38.9	0.9	0.6	6.7	4.0	166.0
7507	372	5.4	1488	21.5	69.1	48.5	1.6	1.1			49.7	34.9	9.9	7.0	12.1	8.5	142.4
7508							1.6	40.0			1.5	37.5			0.9	22.5	4.0
7509	384	5.3	1421	19.5	72.7	48.2	1.9	1.3			53.7	35.6	19.6	13.0	2.9	1.9	150.8
7510	325	4.2	1332	17.2	77.4	59.9	0.8	0.6			39.7	30.7	7.2	5.6	4.1	3.2	129.2
7511							2.6	65.0			1.4	35.0					4.0
7512							0.9	20.9			1.5	34.9			1.9	44.2	4.3
7513							2.9	19.6			0.6	4.0			11.3	76.4	14.8
7601	7	7.0	28	28.0	1.0	3.9					3.8	14.6	21.2	81.5			26.0
7602									21.3	3.0	25.2	3.6			661.5	93.4	708.0
7603	6	5.0	30	25.0	1.2	12.0			8.8	88.0							10.0
7701	7	10.0	12	17.1	0.7	0.2			40.0	12.0	19.1	5.7			273.4	82.1	333.2
7702									14.8	3.8	17.6	4.5			355.6	91.7	388.0
7703	306	5.7	1406	26.3	53.5	13.9	2.7	0.7	4.1	1.1	43.9	11.4	10.6	2.8	269.2	70.1	384.0
7704	26	4.8	83	15.4	5.4	1.6	2.7	0.8			13.8	4.0			322.1	93.6	344.0
7801	2052	17.8	3900	33.8	115.5	8.0					85.6	6.0	1234.9	86.0			1436.0
7901	124	6.3	490	25.0	19.6	8.4	13.5	5.8			21.9	9.4	68.2	29.1	110.8	47.3	234.0
7902	236	5.0	1180	25.0	47.4	9.5	1.6	0.3			56.5	11.3			394.5	78.9	500.0
7903	443	4.5	1905	19.4	98.1	64.5	0.9	0.6			41.9	27.6	2.0	1.3	9.1	6.0	152.0
7904	358	5.6	1575	24.5	64.4	38.3					39.3	23.4	13.2	7.9	51.1	30.4	168.0
8001	292	5.5	1212	22.9	53.0	11.0	10.0	2.1	17.1	3.6	57.4	11.9	26.1	5.4	318.0	66.0	481.6
8002	108	5.2	394	18.9	20.9	7.9					32.8	12.4	12.1	4.6	198.2	75.1	264.0
8003	701	6.5	2753	25.5	107.8	32.4	3.5	1.0			111.1	33.4	13.6	4.1	96.8	29.1	332.8
8004							11.2	70.0			1.1	6.9			3.7	23.1	16.0
8101	12	6.7	12	6.7	1.8	2.7					3.1	4.5	20.3	29.9	42.8	62.9	68.0
8102	71	13.4	219	41.3	5.3	2.4	7.6	3.3	7.0	3.1	14.7	6.4			193.4	84.8	228.0
8103	59	4.6	230	18.1	12.7	7.9	4.1	2.6			47.0	29.4	1.4	0.9	94.8	59.2	160.0
8104											9.4	1.9			478.6	98.1	488.0
8105											7.8	2.2	27.7	8.0	312.5	89.8	348.0
8201							23.9	3.9			12.6	2.0			583.5	94.1	620.0
8202											16.7	3.0			543.3	97.0	560.0
GRAND TOTAL	23877	9.0	74980	28.3	2651.8	12.9	290.2	1.4	1203.6	5.9	2428.2	11.8	2157.5	10.5	11833.1	57.5	20564.4

Great Falls Urban Transportation Study
Total All Trips
By Residents of Internal Area
1961

Table B-2
Summary

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Sociol Recreo-tional	Chonge Trovel Mode	Eot Meol	Shopping	Serve Poss-enger	Total	Percent
Home		14302	6914	1155	2973	24366	95	393	10817	7706	68721	38.6
Work	12516	3770	967	57	9	628	17	3529	633	1117	23243	13.1
Business	6255	518	1805	68	9	1242		200	1275	276	11648	6.5
Medicol-Dentol	751	39	87	15	24	222		26	248	40	1452	0.8
School	2739	8	18	43	10	64	10	27	54	28	3001	1.7
Sociol-Recreotionol	25538	242	600	85	44	7302	9	26	1263	1122	36231	20.4
Chonge Trovel Made	77	12									89	0.1
Eat Meal	342	2620	140		18	189		9	121	192	3631	2.0
Shopping	12239	181	846	26	41	1451		42	2718	467	18011	10.1
Serve Passenger	7271	910	390	51	47	917		186	763	1455	11990	6.7
Total	67728	22602	11767	1500	3175	36381	131	4438	17892	12403	178017	100.0
Percent	38.0	12.7	6.6	0.8	1.8	20.4	0.1	2.5	10.1	7.0	100.0	

Great Falls Urban Transportation Study
Auto Driver Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreational	Change Travel Mode	Eat Meal	Shopping	Serve Passenger	Total	Percent
Home		10586	5070	555	298	8935	26	185	7211	7046	39912	36.4
Work	9606	3670	786	50	9	480	8	3172	462	1059	19302	17.6
Business	4573	451	1489	50	9	835		139	998	232	8776	8.0
Medical - Dental	371	39	78	15		90		8	101	31	733	0.7
School	268	8			10	28		18	28	9	369	0.3
Social-Recreational	9678	186	380	25		2467	9	9	706	940	14400	13.1
Change Travel Mode	26										26	0.1
Eat Meal	197	2344	106		9	66			95	176	2993	2.7
Shopping	8290	167	560	26	9	799		17	1716	414	11998	11.0
Serve Passenger	6747	885	341	32	27	781		178	664	1369	11024	10.1
Total	39756	18336	8810	753	371	14481	43	3726	11981	11276	109533	100.0
Percent	36.3	16.7	8.1	0.7	0.3	13.2	0.1	3.4	10.9	10.3	100.0	

Great Falls Urban Transportation Study
Auto Passenger Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreational	Change Travel Mode	Eat Meal	Shopping	Serve Passenger	Total	Percent
Home		2770	1748	583	733	15210	69	208	3540	660	25521	40.8
Work	2786	93	181	7		148	9	348	171	58	3801	6.1
Business	1622	60	316	9		381		61	277	44	2770	4.4
Medical – Dental	346		9		24	123		18	138	9	667	1.1
School	617		9	43		36	10	9	26	19	769	1.2
Social-Recreational	15537	56	220	51	44	4783		17	548	182	21438	34.3
Change Travel Mode	34	6									40	0.1
Eat Meal	145	269	34		9	123		9	26	16	631	1.0
Shopping	3865	14	286		32	652		25	1002	53	5929	9.5
Serve Passenger	524	25	49	19	20	136		8	99	86	966	1.5
Total	25476	3293	2852	712	862	21592	88	703	5827	1127	62532	100.0
Percent	40.8	5.3	4.6	1.1	1.4	34.5	0.1	1.1	9.3	1.8	100.0	

Great Falls Urban Transportation Study
Truck Passenger Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreo-tional	Change Travel Mode	Eat Meal	Shopping	Serve Poss-enger	Total	Percent
Home		56	53			114			26		249	41.2
Work	19										19	3.1
Business	19	7		9		26					61	10.1
Medical - Dental						9			9		18	3.0
School			9								9	1.5
Social-Recreational	160			9		44					213	35.3
Change Travel Mode												
Eat Meal												
Shopping	35										35	5.8
Serve Passenger												
Total	233	63	62	18		193			35		604	100.0
Percent	38.6	10.4	10.3	3.0		31.9			5.8		100.0	

Great Falls Urban Transportation Study
Taxi Passenger Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreational	Change Travel Mode	Eat Meal	Shopping	Serve Passenger	Total	Percent
Home		133	43	17		72			40		305	42.5
Work	105	7						9			121	16.9
Business	41										41	5.7
Medical – Dental	34										34	4.7
School												
Social-Recreational	126					8			9		143	20.0
Change Travel Mode	17										17	2.4
Eat Meal		7									7	1.0
Shopping	49										49	6.8
Serve Passenger												
Total	372	147	43	17		80		9	49		717	100.0
Percent	51.9	20.5	6.0	2.4		11.2		1.2	6.8		100.0	

Great Falls Urban Transportation Study
Bus Passenger Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreational	Change Travel Mode	Eat Meal	Shopping	Serve Passenger	Total	Percent
Home					1942	35					1977	51.0
Work												
Business												
Medical - Dental												
School	1854										1854	47.9
Social-Recreational	37										37	1.0
Change Travel Mode		6									6	0.1
Eat Meal												
Shopping												
Serve Passenger												
Total	1891	6			1942	35					3874	100.0
Percent	48.8	0.1			50.1	1.0					100.0	

Great Falls Urban Transportation Study
Walk To Work-First Trips
By Residents of Internal Area
1961

Table B-2

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Recreational	Change Travel Mode	Eat Meal	Shopping	Serve Passenger	Total	Percent
Home		757									757	100.0
Work												
Business												
Medical - Dental												
School												
Social-Recreational												
Change Travel Mode												
Eat Meal												
Shopping												
Serve Passenger												
Total		757									757	100.0
Percent		100.0									100.0	

GREAT FALLS URBAN TRANSPORTATION STUDY
EXTERNAL PASSENGER CAR TRIPS
LOCAL AND THROUGH TRAVEL
1961

Table B-2a

Code Number	Description	Trip Purpose									Total	Percent
		Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Pass-enger		
03	Bootlegger Trail	40	45	3		24			20	3	135	0.8
04	U.S. 87 North	107	696	56	6	555	5	5	116	13	1559	9.4
05	Rainbow Ryan Road	28	19	3	3	60			12	10	135	0.8
06	U.S. 87 & 89 East	897	932	115	7	832	5	6	221	32	3047	18.4
07	26 th St. Extension	97	106	1	2	129		1	42	10	388	2.3
08	F.A.S. 459	324	258	22	6	235		13	158	56	1072	6.5
09	County Road South	30	43	2		75		5	9	1	165	1.0
10	F.A.S. 226	251	224	11	4	961	2	5	79	22	1559	9.4
13	U.S. 91 South	1690	1556	47	1	1267	24	35	122	202	4944	29.8
14	Upper Sun River Road	61	76	4	2	89		5	32	17	286	1.7
15	U.S. 89 & 91 West.	719	1128	101	14	1032		8	254	40	3296	19.9
	Total Traffic	4244	5083	365	45	5259	36	83	1065	406	16586	100.0
	Percent	25.6	30.6	2.2	0.3	31.7	0.2	0.5	6.4	2.5	100.0	
	Total Trips	4126	4874	362	44	4926	34	82	1063	395	15906	

GREAT FALLS URBAN TRANSPORTATION STUDY
EXTERNAL PASSENGER CAR TRIPS
LOCAL (NON THROUGH) TRAVEL
1961

Table B-2a

Code Number	Description	Trip Purpose									Total	Percent
		Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Pass-enger		
03	Bootlegger Trail	40	41	3		24			20	3	131	0.9
04	U.S. 87 North	103	617	56	6	457	2	4	116	10	1371	9.0
05	Rainbow Ryan Road	27	19	3	3	55			12	10	129	0.8
06	U.S. 87 & 89 East	841	842	112	7	673	4	6	220	29	2734	17.9
07	26 th St. Extension	95	99	1	2	128		1	42	10	378	2.5
08	F.A.S. 459	314	244	22	6	226		13	158	56	1039	6.8
09	County Road South	26	43	2		72		5	9	1	158	1.0
10	F.A.S. 226	240	209	11	4	932	2	5	79	20	1502	9.9
13	U.S. 91 South	1592	1458	45	1	1130	24	35	122	191	4598	30.2
14	Upper Sun River Road	57	67	4	2	85		5	32	17	269	1.8
15	U.S. 89 & 91 West.	673	1025	100	13	810		8	252	36	2917	19.2
	Total Traffic	4008	4664	359	44	4592	32	82	1062	383	15226	100.0
	Percent	26.3	30.6	2.4	0.3	30.2	0.2	0.5	7.0	2.5	100.0	
	Total Trips	4008	4664	359	44	4592	32	82	1062	383	15226	

GREAT FALLS URBAN TRANSPORTATION STUDY
EXTERNAL PASSENGER CAR TRIPS
THROUGH TRAVEL
1961

Table B-2a

Code Number	Description	Trip Purpose									Total	Percent
		Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Pass-enger		
03	Bootlegger Trail		4								4	0.3
04	U.S. 87 North	4	79			98	3	1		3	188	13.8
05	Rainbow Ryan Road	1				5					6	0.4
06	U.S. 87 & 89 East	56	90	3		159	1		1	3	313	23.0
07	26 th St. Extension	2	7			1					10	0.7
08	F.A.S. 459	10	14			9					33	2.4
09	County Road South	4				3					7	0.5
10	F.A.S. 226	11	15			29				2	57	4.2
13	U.S. 91 South	98	98	2		137				11	346	25.4
14	Upper Sun River Road	4	9			4					17	1.3
15	U.S. 89 & 91 West.	46	103	1	1	222			2	4	379	27.9
	Total Traffic	236	419	6	1	667	4	1	3	23	1360	100.0
	Percent	17.4	30.8	0.4	0.1	49.0	0.3	0.1	0.2	1.7	100.0	
	Total Trips	118	209	3	1	333	2	1	2	11	680	

Great Falls Urban Transportation Study
Average Passenger Car Occupancy
1961 Internal Survey

Table B-3

Purpose From	Purpose To: Home	Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Pass-enger	Average Occupancy
Home		1.3	2.0	2.7	3.0	3.3	2.1	3.3	2.3	2.3	2.4
Work	1.0	1.2	1.4	1.1	1.0	1.5	1.3	1.2	1.6	1.6	1.3
Business	2.0	1.3	2.0	3.0	1.0	2.6		1.6	2.3	2.3	2.1
Medical Dental	2.2	1.0	3.7	2.0	3.0	2.7		3.7	4.0	2.4	2.7
School	3.0	2.0	7.0	3.6	3.0	3.1	4.0	2.0	2.3	3.0	3.0
Social Recreational	3.2	1.7	2.6	2.3	4.2	3.6	6.0	2.8	2.6	2.9	3.3
Change Travel Mode	2.0	1.5									1.9
Eat Meal	2.3	1.2	1.7		2.0	4.2		2.0	2.0	2.0	1.5
Shopping	2.3	1.4	2.5	2.0	5.8	2.6		2.8	2.6	2.4	2.4
Serve Passenger	2.1	1.5	2.5	2.7	2.8	2.6		2.0	2.4	3.0	2.2
Average Occupancy	2.4	1.3	2.1	2.7	3.1	3.2	2.3	1.5	2.4	2.3	2.4

Great Falls Urban Transportation Study — Table B-3a

Average Passenger Car Occupancy

1961 External Survey

Trip Purpose	Non Through	Through	Total Average Occupancy
Work	1.4	1.5	1.4
Business	1.8	1.9	1.9
Medical Dental	2.7	2.3	2.7
School	1.9	2.0	1.9
Social Recreational	2.7	2.9	2.8
Change Travel Mode	2.1	2.5	2.1
Eat Meal	2.2	3.0	2.2
Shopping	2.5	2.0	2.5
Serve Passenger	2.3	3.0	2.4
Total	2.1	2.4	2.1

GREAT FALLS URBAN TRANSPORTATION STUDY
TOTAL PERSON TRIPS
AVERAGE DAY 1961

TABLE C-1

Sheet 1 of 4

Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409
6101																																																							8						
6102		16		23			7					16	27		18		9		25			14			16							18	9	25						7	9				39	9	18		24	9			14		9			9		
6201								14	9					9		9										42			9		9								14			9		18		9									8					
6202		21					27	18		27		9		45	25	73	18			35		7			9									18		16		32	54	36	100		14		126	23					18		32		6			69	30	
6301						7		9																			9									6									41		9													
6302					14		25							9			7																						9	34	7		9	27	17	7							40	16				8	
6303		15		36		32	346	473	100	7	60	43	36	32	70		60	9	45	43		39	18		54	23	91	7	91		54		45	9		7	27	57	27	52	88		131	18	729	46	60	27	61	66	28	21	98	42	54	16	109	34	
6304			18	27	9		564	54	9			36	34		13		36			9					18		9				54		9			8				42					45							25	9	18			7		
6305							82	9					36		9		18			9		18					9																					9						25	9		9	9		
6401							7																		7																						28								15			7		
6501							42					121	50	7			18		27	25		18	18							9	144	14	34	16						36	39		6		44		7	20	79	9			56	41	28		22	21	12	
6601		14		27			59	27	32		102	57	71	144	156	64	101		36	44	14	9	9			21	18		7		87	16	75	27	9	34				34	24	18	36		355	43	77	14	71	34		57	27	156		9		55	23	
6602		34		27			36	18	36		50	97	117	92	32	54	7			52		7		27	36		48				80	92	18	80		18			13	27	52	91	7		201	85	16	42	9	38	7		45	25		9	18	16		
6603			9	36			25				7	54	117	52	74	9	70		18	25		14				18	9			18		27	105	27		27				18			7	9	83	18		54		7			7	17			9	25		
6604		7		27			61	9				163	50	73	22	43	27		45	135		33	27	18	18	32	34						64		9	52				8	41	9	43		104	13	25		57	9			81	53	15	15	45	14	8	
6605			9	45			45	18				50	117	36	34	7	9			27			18	54	18								72	61						8			8					9												
6606				36			89					96	7	91	53	45			45	91			45	36			18				18		63							17	7		25		35	18							23			7				
6607							9																		23														29			7					7							13						
6608		25						9			27				18		27			18		35	18										27			9				8	34				63		7											7			
6609				29		8	16		27		7	82	67	34	82	27	73		27	98		39	36			9	9			9	36	16	36	36						43	33		82	27	343	50	7	36	7	43			25	49	47	27	50	61	36	
6610												14	36										7													9				7					41	8			9	7				7					6	
6611		14		7			16		18		9	9	7	25	39				37	39		14		16	7					9	7	25	34	65		7	6	8		29	24		6		92	9		7	25	7	7		32	14	7				13	
6612							27				25	18			18	9	55		18	18	7	8	17			18	14						23			62				9	16		39		140	25						7	6			25	25	9	16	
6613												7				9	36					23										7				18				8	14				34	30						7		7		55	9			
6701		14		9			54						36	9	9		18	21				7					52				54					9				16	16		9		131	9	14			41			8				9			
6702							34					21		7	25	18				7																		7		7										33				7						
6703		18			9		78	18		7		18	14	9	18					18			23		52						69			9					37	25				72		8	9	36						7	9	9		8	
6704							7																								25		7						37					15		7	7		8				8						
6705			9				54					7																			9												6						9	6										
6706				18						25				18	26		9																				9			27	88			35	171		27	173	542	9			15	18	26		158	390	48	
6801			9	7	23		90	82			139	87	79		27							7			45		33	32			631	7	36			27				17	72		28		69	32	18	7	16	54		17	81	81	8	42	103	160	69	
6901		18									32	43	54							7		7		7							7	49	22							9			7		41	10		9		9			38	8				18		
6902		25		9		23	52	9			23	93	18	77	107	82	36		9	36		46	25		9			7				9	93	29		7	9	14			20		27	54	401	111	7	9	7	53		14	32	25	17	18	16	7	32	
7001		48		18			27				7	36	64	18		41	16			36		63	9	7									14	31		171					25				71	65	9	18	18	9		52	27			9	18	63		
7101												9			9																			7	34																				9					
7201							14					16	18	18	45		18		9		7	7	62	18							42		8	127	34	177	54			62	9		34	8	302	29	52			9		7	7	25	7	25		9	8	
7202							36													8																63				32	7				65				7				50	16	16		9	26	24	
7301			9	32			66			6			27			9				1		6											16											7	45	5		9	13	9		6	16	27				8	
7302				54			27						27		9																25		8						41	8	25		67		21				27				8		76			18	23	
7303						34	32	34			43	34	36	41	5			28		36	7	31	18	8	9		6	43		36	9	17				44	32	25		58	155	25	64	17	364	145	49	47	96	27	30	7	129	30	54	54	35	99	47	
7304		7	9	64		7	116	27			39	23	25	18	49				34	8		14	15	16	16	7	23			96	64		20	25		27	7	18	41	142	121	23	50	73	631	99	44	93	85	48	20		140	83	59	46	139	103	50	
7305							18					45	73		7																									25	32				8		8		18								27		8	
7306				25	7		156	13			6	18	16		7		50			77		6	41			16			9	25	14	7	27	9		9		7	26	67	51		90		177	46	89	56	84	86		28	51	51	21	40	52	61	25	
7307															6					27							17			44			54			17				8	66				58	22		10	80				31	43	59	24	18	26	54	
7308		36	52	94	32	8	595	78	6		27	327	192	78	156	130	58	8	69	376	20	55	122	52	105	9	71	7	19	104	462	58	391	98		289	43	37	108	348	696		262	22	1452	570	232	314	412	170	22	13	561	767	508	151	432	602	342	
7309		7		7		7	59			26	7	71	108	6	56		8			40	13	7	25	32	18					17	23	7	87	43		54		6		123	210	9	14		348	194	67	68	112	49		23	122	79	147	57	94	55	66	
7310		7	18				53				7	59	16		32	8			16	7					16		13				18		14	9		52				24	72	6	39		209	7	24	14	63	51	8		73	73	28	7	126	42	57	
7311			9				34	18			20	83	42	7	61			7		36		7						9	9	164	16		6	7						47	116	27	52		167	86	13	139	152	7	7		26	7	17	7	9	17	38	
7312		14					79				95	27	9		32		7			7	9	25					27		9	515	16		7	18		8	7	7	27	90	100	18	71	80	525	108	32	163	147	106		27	75	73	15	27	42	44	
7313				9			38					18	47	25				9		43		22	18		50	6				6	97	9	67	7		20				14	95	18	61	8	135		27	16	112	26	9	7	30	25	6	7	27		37	
7401				18			23										9														7									22	20				34		7		9		14			16			9	9	
7402							16	27				59											7	7			7				17		14	34				7		7		26		34	24			22	16	20	6	15	9	51		25	18	8	
7403				34		40	43	18	25		63	36	36	32	49	18	13			25		7					9			21	65	16	34			7	42	14	18	163	146	8	42	46	654	120	59	35	84	38		48	337	323	136	84	123	100	127	
7404	6	7				16	34	18	9		33	123	25	76	58			13	7	31	7	12		7		7	24	16		62	74		107				22	76		32	74		41	51	762	80	79	22	56	17		20	304	167	170	47	92	85	20	
7405		9	8	16		7	54			13	34				13					47		7			6		7			17	46		17	9	9	7	16		25	41	60		21	67	607	118	52	17	13		16	72	82	169	136	51	61	58	108	
7406							16					9	9		9		27			18			25				5				24		18			34				48	61		30		184	25	33	27	44	10			77	65	53	8	55	77	14	
7407			9				112	7			29		18	7	18	9	9		9	25			34		9		7			203	109		23	12						26	135	18	36	27	795	91	151	36	35	9	7	31	125	101	64	23	71	102	67	
7408				27		8	45				21	64	34	25	40					18			9							278	130	16	16	63		16	18		18	107	113	22	46	18	[illegible]	43	30	9	27		9		129	113	85	42	166	53	100	
7409				16			6				12	23					6			61	6	6	16				12			13	69		18				15	8	23	63	51	8	30	54	387	58	70	38	9	53		6	68	83	140	39	75	70	29	

GREAT FALLS URBAN TRANSPORTATION STUDY
TOTAL PERSON TRIPS
AVERAGE DAY 1961

TABLE C-1

Sheet 2 of 4

Zone Of Destination

Zone Of Origin	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	SUB-TOTAL
6101																																										8
6102										25				18																8			31									452
6201				9																														18								190
6202	23			18		45						6		14	8	18										25			18		6				7					8		1087
6301																																					23					104
6302			23	9							30	16												16					16	69			9									415
6303	36	50			40	59			73	58	32	34		71	26	45			64					9	9	240	54			38			45	25		34				6		4655
6304		9																																18								1085
6305	18	53			18						9															39	16					6			18							430
6401				6						18		27																	12													125
6501	14	16	26						22	8	18	26		24													18		9	28	9	7	20		9					9		1220
6601	9	9	31	88		59			25		8	6		26					36		25				14	23	16		24	16	62	16	9	14								2836
6602	18	9				16		7		16				30		7									14	38			34		9		18	82		16							2071
6603	34	36	25		25				32			8			8									18		10																	1209
6604	9	16	44			9		8		8	18	28		6		27						14		17		57	9		9	6	36			7	7	6							1832
6605			6																																							651
6606		9	9									6									9							7	14	23	7		27			16							1012
6607	8																													8													102
6608	9																									39			9			45	9			14							454
6609	18	8	8	34		7			23	15	6	9		16			7		18							14		18	27		25	9	18				8					2054
6610						7			7		6	14																				9	7										201
6611	22	14	6					7	7	13	6	24	7	21		6			45					13	7	14	6		9				7								27		952
6612		9							18						9											7	45				18						6		7				774
6613		27						8								18															6												326
6701		9								9		27				52										39					6	9	9			14				27		737
6702										8	8																		9						18							206
6703			16	9							6			14	15			9						7		53			9		20		16			9						762
6704					9				15	7		15														8							7									182
6705		7		18					14																									18								165
6706	299	106	6	18	8							9		86	23														91	38		44	61									2566
6801	39	18	23			7			43	8	8	56		8	9	7			9					16		18	25	23	23	39	18	43	31		9		16					3044
6901				7					8						8											34					36		7									495
6902	9	9	6		43				7	45	23			15		18								22	16	18	36			6	7	32	7	70								2117
7001	18	9	21		9				8		25	18										7		7		7					9	7	9	34		6						1187
7101																																										68
7201		7	14	34		18			16	25	24	8		23	29	45										27		9			222	27	45	64		9	6					1918
7202	27	25	23						33		7			23	53														37	23			16										626
7301	7		14		18				23		6			6		7										6			22	6													436
7302	18		23	14	8				76	33	16	8		16	15									25				16					35										768
7303	43	86			24	17		17	58	74	127	48	9	38	27	7		18		7				8		134	40		18		23	34	9	36		37		18		50		3151
7304	93	102		17	8	100		8	74	67	89	24		36	31	25	8	26								193	16	50	21		45	16	86	81		69	8			9		4166
7305			31								8			77	31	8													31	28	7												492
7306	154	71	22	50			9	8	86	34	85	70		50			7							9		46	14		13	18	29		65	25		44						2552
7307	88	9			38	9			16	8	37	70		16										36		60		14	33	30	34	7	15			39						1229
7308	400	319	354	125	134	49		33	597	436	398	220	32	356	182	209		94	16		7	7		237		779	103	113	313	298	284	62	607	175	47	174	46			24		19477
7309	91	94	87	38	8			25	108	63	74	72		97	48	81	9		18					70		244	21	62	154	37	85	67	85	41		24	9					4356
7310	42	73	45	24	40	7		27	23	25	36	57		62	6			6						7		22	10	9	23	23	64		73	37		25						2041
7311	72	31	54	27	108	16			43	17	17	74		20	21	16		16	27		7	7		9		124			14	14	33	16	42	16		23		7				2347
7312	97	123	8	35	22	10				40	34			32	9	16		45	53		7					305			48	35	131	32	131	53	18	16			18	9		4011
7313	130	44	32	40	27	15		8	28	58	23	46	23	44	44	23		8	8					26	9	103	25		71	23	59	16	95	62		17	9					2272
7401	56								28	7	14				8									8					48		18												365
7402		58	27			15		25			6	8						9						8		22		9	20	14	24	48	16			10	25					795
7403	102	51	29	16	70	47		75	23	76	45	47		36	25	32								35	7	202	90		24	22	48	13	50	56		37						4653
7404	40	7	32	9	33	76	7	119	64	94	72		9	22	15	8		23			6			43		237	48	62	43	47	61	9	121	9	50	21	16	8		9		4369
7405	48	33	12	23	134	27		176	108	67	75	24	9	45	47	21		16						25	7	160	41	8	31	8	34		35			22				23		3374
7406	27	7	8	50		9		8	75	64	15	15	9	40	63	46								22		153	47	16	16	14	6		9			7						1767
7407	137	16	9	49	61	9		43	76	58	47	24	9	16	54	32			27					9		229		135	76		25	7	27	71	16	23	93	14		36		3631
7408	141	73	58	75	27	36		58	117	67	84	24	9	22	44	18		16			7			33		229	25	169	35	48	35	38	49	53	25	40				9		4229
7409	9	34	23	16	21	9		50	18	39	32	16	9	45	35	40			16		6			33		295	22	46	14	48	48	48	30			23	8			15		2677

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15				SUB-TOTAL	GRAND TOTAL	ZONE NO.
6101																8	6101
6102																452	6102
6201																190	6201
6202																1087	6202
6301																104	6301
6302																415	6302
6303																4655	6303
6304																1085	6304
6305																430	6305
6401																125	6401
6501																1220	6501
6601																2836	6601
6602																2071	6602
6603																1209	6603
6604																1832	6604
6605																651	6605
6606																1012	6606
6607																102	6607
6608																454	6608
6609																2054	6609
6610																201	6610
6611																952	6611
6612																774	6612
6613																326	6613
6701																737	6701
6702																206	6702
6703																762	6703
6704																182	6704
6705																165	6705
6706																2566	6706
6801																3044	6801
6901																495	6901
6902																2117	6902
7001																1187	7001
7101																68	7101
7201																1918	7201
7202																626	7202
7301																436	7301
7302																768	7302
7303																3151	7303
7304																4166	7304
7305																492	7305
7306																2552	7306
7307																1229	7307
7308																19477	7308
7309																4356	7309
7310																2041	7310
7311																2347	7311
7312																4011	7312
7313																2272	7313
7401																365	7401
7402																795	7402
7403																4653	7403
7404																4369	7404
7405																3374	7405
7406																1767	7406
7407																3631	7407
7408																4229	7408
7409																2677	7409

GREAT FALLS URBAN TRANSPORTATION STUDY

TOTAL PERSON TRIPS

AVERAGE DAY 1961

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Sheet 3 of 4

Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410				31			36		18		14	36	18						9	36		14								291	25		9	34			25	7	18	43	92		127	114	410	87	57	82	115	117	54		75	48	63	33	65	116	30		7410
7411							59	27	53		14	7	36	44	7		8					16	6		9				7	158	35		7	9		7	25			49	84		45	9	308	107	45	47	88	44		41	126	9	33	7	68	52	18		7411
7412						23	15				18	31		25	21					8		6					8		8	15	23		6	23		20		14	23		50	31	22		427	71	50	52	15	21		21	29	32	8		9	66	23		7412
7413			9	18		9						57								18							18		18	9		7		7		52		7	25		18		55		85	20	7	44	26	71				9	21	40	64	103	23		7413
7414							25					9		16	7		16					25	9		9								36	27			8	18		17	18		7	23	127	22	25	86	22	9		7	46	51	109		53	27	30		7414
7501				45			59	9				68	16							18	7										9									17	82			7	83	9			10	8			34	93	24	9	9	44	8		7501
7502																																																					7							7502
7503		7							9		8		7		6							7									18									8	8				14		17				6	84	93	184	25	42	95	50		7503
7504							51				20	9								23	7	7	18	8				13				8	7	8		16	42	21	84	91	78	8	55	17	642	77	21	48		23	28	14	104	70	123	33	40	102	49		7504
7505		16					41				7		47		15					9	15	13			9			7			16		59			35			33	61	25		26	17	438	72	13	17	83	63		7	91	48	92	78	80	32	8		7505
7506						23	41				18	8			9					14	6	6					6				8		23	52		6	8		16	141	62	8	45	36	452	62	6	9	18	25	6	6	30	63	83	45	53	67	33		7506
7507				33		16	61				26			27	20		6			9	12	30			27			23			66			18					8	48	46		66	77	212	48	66	64		36			28	23	24	23	8	9	8		7507
7508							7																																		61								30				17	8		9	9	23		7508
7509		24		12			87				24	45			8					23		27					9			77	9		15			23	48	6		41	14	77	38	16	456	82	8	28	26	52	6		52	44	36	60		52	50		7509
7510							26							8									9				22			23	9					22	62		15	35	31	31	20		190	39		37	9	43	18	14	43	6	62	49	46	35	35		7510
7511		7		18			54						7		7					36				18	52						9		18			18				26	16				83	26	17	16	7	17			32	42	23	9	18	43	30		7511
7512																				16																							7		31																7512
7513				18																			18										18			18									24				23					15	16						7513
7601							64					36			15					18		45																	13		24						18		27	53						16		27		16	7601
7602																																											7				7													7602
7603												7										9																							7			7	7				8				7	6	7603
7701															14																			7											7			7												7701
7702																																																											7702
7703						45	9				9				26							13					7				25						8		25	8	9		25	16	262	43	7			25	6	7	54	17	25	25	18	13	33		7703
7704												14	14		8							7											16										7		18				9			7		15						7704
7801				25			200		46			21	45	10	49		18		36	33		14	18		25		69	6		18	24	27	48	25		45	8	15	25	170	191		34	84	787	289	24	92	320	95		16	198	235	166	195	276	189	252		7801
7901							63				6	36			25							6	27								33		36	8						28	16		12	8	112	12			8	25			81	40	32	24		25	22		7901
7902				9								9								7											23									8	50		23	36	114	99	31					8		68		14	135	145	39		7902
7903				18		16				12	6	18	16		18		12		9			6				6				91							29	22		8	21	39	13	23	356	186	23	29	46	54	18	18	32	41	32	23	33	15	21		7903
7904		8				69	38				12	16			21		16	6				6								62	36						23	6			6	6	24	16	333	24	33		38	14		14	22	36	25	6	16	87	38		7904
8001		9		12			36				9	89	27				7			27	36	7	9		8		29				7		7	7		213				24	9		65	27	279	37	54	33	176	56	18	24	32	61	25	9	50	44	52		8001
8002									9		7										9				9		9				25	22	25	7					37	7			7	36	67	17	9	32	16		14		38	7	7	13	41	27		8002
8003		31				8	18	36			34	9							9	45		7			9		9	14		61	9	25	7			18	7		35		91		67	16	566	96	57	27	71	49		20	59	109	35	18	27	51	43		8003
8004			18				9					43	36		6		45			9					9				27				79	43		91	16			25	59		6		77	32	16	33	18	115			62	18			78	85	23		8004
8101				7					27																						9		9											76					8			9	42			9	25			8101
8102				9		7							9		6				14			18	7		16		17									8	9			37	64		58	39	106	41	9	23	42	9		19	20	31	25	7	23	33	22		8102
8103					6										9					14											16														110	9	31						16		25		78		8		8103
8104																							7																									25							8			16				8104
8105																																																	27											8105
8201				8			7				25				8							27			27						18					27	9			50	8				26	7			9	18			7	7	23		27	9	15		8201
8202																																																											8202
Sub-Total	8	458	195	1040	100	413	4647	1081	433	123	1181	2789	2073	1257	1852	664	983	101	553	2034	182	936	790	331	750	215	754	182	210	2480	3063	499	2172	1169	68	1964	634	419	747	3124	4360	500	2445	1236	19197	4236	2083	2403	3957	2243	362	771	4552	4380	3480	1728	3691	4261	2605		Sub-Total

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15	Sub-Total	Grand Total	Zone Of Origin
Grand Total	8	458	195	1040	100	413	4647	1081	433	123	1181	2789	2073	1257
Grand Total	1852	664	983	101	553	2034	182	936	790	331	750	215	754	182
Grand Total	210	2480	3063	499	2172	1169	68	1964	634	419	747	3124	4360	500
Grand Total	2445	1236	19197	4236	2083	2403	3957	2243	362	771	4552	4380	3480	1728
Grand Total	3691	4261	2605											

GREAT FALLS URBAN TRANSPORTATION STUDY
TOTAL PERSON TRIPS
AVERAGE DAY 1961

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Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410	88	88	25	130	33				16		18			18	18		7	7			7			43		122	42	16	39	15	86	51	245	60	14	35	18			18		3608
7411	104	193		26	18	27				18	45		9	92	31	53					7			24	18	108	18		38	15	18		49	68	24	16						2733
7412	16	8	8	9	39	8		32	23	23	29	54	15	70	29	94			15					16	6	30	23		29	15	31		8	31		18	6			16		1915
7413	69	70	34	64		9		9		9	50	68		33	16	59										124	7	8	46		52	35	90	70	26	15	9			9		1821
7414	25	18	85	61		34		25	59	23	24	32		113	38	24		40								20	15		32	113	44		38	14	9	15	39		9			1838
7501		18	8		25			63	40	33	17	45		60	22	8			13					44		108		8	132	23		9				16						1360
7502																																										7
7503		17	24			65			141	172	33	15				67					33			76		40		39	23	46				9									1488
7504	29	27	23		44	34		101	33	50	86	25	25	15	32	50	13	8	67		16				20	107	42	187	50		51	26	32	7	8	61						3234
7505			56	22	44			198	42	33	57	96		33	53	27		42	42	17	8			51	25	207	49	42	16	39	22	42	16	29		48				16		2945
7506	33	37	43		8	8		54	89	59	195	39	8	94	86	94	8	17	61					30		88	8	15	29	23	6	9	22	8	6	21						2692
7507			16	46	25	62		15	57	124	24	54		60	39	53		39			6			38	10	160	8		23	16		12	24	21		67				12		2179
7508			31					8	25	8	14			8	8	9																										230
7509	8	86	38	6	108	85			48	56	62	54	8	100	60	147	8	16	24			22		23		73	39	23	39		70	16	38	38		68				23		2961
7510	9	40	29	23	20	30			16	46	70	39	8	23	23	24		92						36	7	45	43		43	15	30	27	7			28				23		1745
7511	16	44	172	15	24			17	34	25	78	65	24	192	23			8						78		80	14	46	83	83	60		61	75	9	33	25					2031
7512									15		8			8															7													92
7513	18	9			9			10	16	42	9	23		31	116									22		80	48	100	100	191	34		16	18			8					1050
7601	9								42	42	61			8										16		25		23														598
7602										17																																31
7603	7	7						33	16	8		6				18											8						22										183
7701														22										7												6							70
7702																															7												7
7703	69	24	16	9	46	36		52		67	21	78		38	16	50						7		97	27	243	75	7		38	9	27	7	8		31				7		1865
7704		18	6						20	25		10												17		36			69		9		7										332
7801	122	83	33	109	67	96		57	101	225	102	131		72	49	40		98						283	38		229	592	187	405	34		134	66	126	54	26			16		8038
7901	42	9	15	7	8					64	64	16		39	36	12		16			8			75		220		115	30	77	89	9	87					8				1731
7902	30			8	8	8		39	147	15	15			23	23	8		62	23					7		600	131	85	23		32	18	7	23								2153
7903	30	25	15	40	70	140		8	79	25	29	23		45	37	43	23	70	16					16	63	194	39	23	84	46			24	29	8	22	6			25		2607
7904	6	15	8		108	23		52		18	23			16	8	101		130						46		438	23		62	30	7	23	31	23		6				34		2288
8001	127	18	38	27	53				41	25		18		69	30	49		7					7		9	34	77	40		7			51	119	18	23	7					2058
8002	59	44		9		42		8	15			22		16	27			23						27		29	9	18			25		73	18						27		988
8003	209	67		87	76				33	23	14	6		68		70		31			20				14	159	61	7	29	38	66	80	205	103	25	88	16			97		3445
8004	35	95		133	47				7	40		8		23	8	25		22								67	30	8	43	23	146	27	94			16						1975
8101	9	16		32		9			8		6					10								8		69					18	9	51				39					505
8102	44	16	26	24	12				107	50	21	61		58	18	64		19				6				56			38	36	18		57	17	6	24	58					1564
8103	18		6	18														8						39		24			6				31			60						532
8104																											8															64
8105																																										27
8201	9	9	16	9						16		6		23	23									7		10			25	8			7			18						548
8202																																										
Sub Total	3645	2787	1926	1772	1835	1366	7	1491	3262	2971	2749	2178	217	2941	1762	2031	90	1041	598	31	181	70	7	1892	320	7894	1791	2191	2726	2310	2496	1033	3520	1921	507	1586	524	62	27	542		177464

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total		Grand Total	Zone No
7410																	3608	7410
7411																	2733	7411
7412																	1915	7412
7413																	1821	7413
7414																	1838	7414
7501																	1360	7501
7502																	7	7502
7503																	1488	7503
7504																	3234	7504
7505																	2945	7505
7506																	2692	7506
7507																	2179	7507
7508																	230	7508
7509																	2961	7509
7510																	1745	7510
7511																	2031	7511
7512																	92	7512
7513																	1050	7513
7601																	598	7601
7602																	31	7602
7603																	183	7603
7701																	70	7701
7702																	7	7702
7703																	1865	7703
7704																	332	7704
7801																	8038	7801
7901																	1731	7901
7902																	2153	7902
7903																	2607	7903
7904																	2288	7904
8001																	2058	8001
8002																	988	8002
8003																	3445	8003
8004																	1975	8004
8101																	505	8101
8102																	1564	8102
8103																	532	8103
8104																	64	8104
8105																	27	8105
8201																	548	8201
8202																		8202
Sub Total																	177464	Sub Total

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total		Grand Total	Zone No
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10
13																		13
14																		14
15																		15
Sub Total																		Sub Total
Grand Total																	177464	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
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Zone Of Destination

ZONE NO.	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	ZONE NO.
6101																																																						8								6101
6102		16		23			7					16	18		9		9		9			14			16							9	9	25						7	8				30	9	18		24	9			14		9			9			6102
6201								18						9		7										8			9		9							14			8				9																	6201
6202		21					18	9		9				27	25	27	18			26		7			9									9		9		14	18	9	46		14		92	15					9		14		6			33	15	6202
6301						7		9																												6									32		9														6301
6302					14		16										7																							17	7			9	8	7							15	8				8		6302
6303		7		9		23	164	282	36	7	53	34	36	23	43		33	9	9	16		32	18		18	9	43	7	27		54		27	9		7	9	32	9	25	34		78	9	436	37	44	27	27	30	28	21	71	42	27	16	58	34		6303
6304			16	18	9		300	36	9			18	25		18		9			9					9		9				36		9			8				8					27						16	9	9			7			6304
6305							27	9					9		9		18			9		9					9																				9						8	9		9					6305
6401							7																		7																						26								15						6401
6501							35					57	34	7			9		9	16		9	9							9	116	14	25	16						29	39		6		36			20	63	9			49	26	28		22	14	12	6501
6601		14		5			41	9	32		57	48	35	71	93	46	55		9	44	14		9			21	9		7		26	16	48	5		25				17	16	18	18		238	43	32	14	18	27		32	18	70		9		9	15	6601
6602		25		5			36	16	9		34	52	71	46	25	27	7			34		7		9	9		39				53	46	9	25		9			13	18	25	9			112	76	16	16	9	30	7		9	16		9	9	9		6602
6603			6	18			16				7	36	53	35	49	9	36		9	16		14				18	9			9		9	43	18		18							7	9	42	18		9		7			7				9	18		6603
6604		7		27			43	9				100	43	57	13	34	27		9	92		27	18	9	18	25	25						48		9	43				8	16	9	18		69	13	16		50				47	38	15	15	27	14		6604
6605			9	18			18	9				41	45	18	16	7	9			18			9	18	18								36	36						8			8																	6605
6606				27			43					69	7	36	26	18			27	82			36	18			9				18		36							17	7		8		35	30							23			7					6606
6607							9																		23															21			7					7							13						6607
6608		6						9			9				9		18			9		28	9										18			9				8	16				36												7				6608
6609				21			7		9		7	46	49	16	75	9	64		18	71		32	27			7	9			9	9	16	27	27						34	17		55		202	34		27		43			25	31	30	18	8	52	27	6609
6610												14	9										7													9									33	8			9	7				7					6	6610
6611		14		9			16		9		9		7	25	31				30	32		14		16	7					9	7	16	39	51		7	6	8		29	17		6		39			7	18	7	7		15	7	7			7	6611
6612							27				16	18			18		46		9	9	7	8	17			9	9						23								16		30		69	25						7	6			18	16	9	8	6612
6613												7				9	18					16										7									14				25	23						7		7		9					6613
6701		14		9			18						9		9		18	21				7					36				18									16	16		9		104	9	14			27										6701
6702							18					21		7	18	9				7																		7													8				7						6702
6703		5					60	9		7		9	14	9	18					18			16		36						60									20	8				57		5	9	18					7		9		8	6703
6704							7																								16		7							30					15		7	7		8				8						6704
6705			9				27					7																			9												6		8				9	6										6705
6706				6						9				9			9			9																9			9	35			18	74		18	67	181	9			15		17		35	163	33	6706
6801			9	7	8		63	46			111	26	43		18							7			18		25	14			440	7	9			9				17	26		28		255	14	18	7	16	27		17	65	32	8	35	59	61	8	6801
6901		9									23	25	36							7		7		7							7	49	14							9					34	10				9			23	8				9		6901
6902		25		9			43	9			14	57	9	34	64	46	18		9	27		46	25					7				7	70	29		7	9	14			7		9	18	227	84			7	46		14	32	16	17	18	7	7	17	6902
7001		41		9			9				7	9	18	18		27	9			27		49	9	7									14	31		34					25				62	56	9	18	9	9		18	18			9	9	9		7001
7101															9																				7	25																			9					7101
7201							14					7	9	18	36		9		9		7	7									17		8	18	25	104	27			36	9		25	8	202	29	34			9		7	7	18	7	16		9	8	7201
7202							18													8																36				24	7				49				7				25	8	8		9	26	16	7202
7301			9	18			32			6			9			9						6											16												7	36	8		9	13	9		6	8	18					7301
7302				18			9								9																		9						41	8	17		67		21				18						17			9	8	7302
7303						17	16				36	17	27	7	8			20		27		31	9		9		6	36		18	9	17				27	24	7		41	103	8	64	9	264	110	25	39	89	27	23	7	97	30	47	38	26	47	32	7303
7304		7	9	46		7	53	9			39	23	16	9	22				16			7	15	16	16		8			35	18		7	25		18	7	9	25	108	104		41	56	437	91	46	66	59	40	20		117	68	42	31	89	77	42	7304
7305												27	9		9																								8					8												9			7305
7306				18	7		76	13			6	9	16				24			50		6	32			9			6	7	14	7		6				7	26	52	51		81		152	46	53	47	60	51		28	51	51	21	32	52	44	25	7306
7307																											8			9			18			17				8	57				32	22			35				23	17	34	24	18	17	39	7307
7308		27	18	69	23	8	360	42	6		9	224	116	42	122	48	41	8	44	187	20	39	69	36	78	8	55	7	19	60	285	43	224	71		200	35	37	50	256	475		220	14	1025	379	166	172	286	109	22	13	339	493	282	125	309	328	218	7308
7309		7		7		7	32			26	7	53	90	9	30		8			32	13	7	16	25	9					9	23	7	69	34		36		6		98	122	9	14		256	111	59	42	96	40		15	99	64	114	38	85	55	48	7309
7310		7					46					41	16		25										16		13				18			6		43				16	72	6	21		146	7	18	7	32	33	8		65	58	28	7	93	26	49	7310
7311			9				18	18			20	30	16		17			7		27		7						7	9	67		9	7							32	99	9	45		124	51	8	121	108		7		17	7	17	7	9	17	15	7311
7312		14					45				79	18	9		25		7				9	18					9		9	172	16		7	9		8	7	7	18	83	66		47	35	340	83	16	101	121	106		27	35	42	15	18	33	26		7312
7313				6			29					18	29	16				9		34		22	9		36					9	45		60	7		14				14	60		26	8	126		27	3	104	26	9	7	30	16	6	7	18		22	7313
7401				9			23										9														7							6		15	25				39		7			9		14			8			9	9	7401
7402							16	18				43											7	7			7				17		34	9				7		7			26		34	16			22	16	20	6	15	9	34		16	9	8	7402
7403				7		15	106	9	8		47	18	9	24	32	9	13			25		7					8			21	49	16	34			7	25	7	8	104	104		42	38	392	90	42	26	44	30		48	222	141	71	67	82	81	95	7403
7404	8	7				8	34	9	9		26	52	16	25	43			13	7	22	7			7		7	8	16		18	42		34				14	27		24	50		33	17	505	64	62	22	42	8		20	138	129	95	40	59	59	20	7404
7405		9		8		7	27			13	26				13					30		7			6		7				17	23		17	6	9	7	8		8	34	52		21	42	327	94	44	17	13		8	40	57	76	76	15	44	41	58	7405
7406							16					9	9		9		27			9			18								17		18			25					40	38		23		133	25	25	17	35	10			60	48	15	8	32	35	14	7406
7407							52	7			20		9	9	9	9	9		9	8			16				7			62	65		14	12						17	83	9	36	18	301	81	100	18	26	9	7	22	84	68	47	16	44	93	41	7407
7408				8		8	36				14	18	18	18	40					9			9							130	49	9	9	18		16	18		9	55	79	8	29	9	350	34	8	3	9		9		103	61	59	26	139	35	82	7408
7409				9			6				12	15					6			44	6		8				12			24	8		18				15	8	8	48	25		30	39	240	35	56	15	9	38			53	60	66	31	41	52	14	7409

Zone Of Origin

GREAT FALLS URBAN TRANSPORTATION STUDY
AUTO DRIVER TRIPS
AVERAGE DAY 1961

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Sheet 2 of 4

Zone Of Destination

Zone Of Origin	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	9201	8202	SUB TOTAL
6101																																										8
6102										8				5																8			22										362
6201				5																														9									112
6202	16			9		18								14	8	18										18			9		9				7								623
6301																																					8					71
6302			9	9							15	8												8					8	15												187
6303	27	34			40	50			31	31	24	17		25	9	9			18					9	9	142	27			15			18	16		16						2698
6304		9																																9								634
6305	9	18			18																					19	9					9			9							222
6401				6						9		9																	12													91
6501	7	16	15						22	8	12	20		24													6		8	20		7	20							9		913
6601	9	9	9	52		23			16		8	6		17					9		16				14	21	5		15	8	9	9	9	14								1622
6602						7		7		8				15		7									14	30			17		9		18	36		16							1164
6603	25	18	17		16				7			8												18																		666
6604	9	7	15			9		9			18	20		6		18						7				40			9	6	9			7	7	8							1241
6605			6																																							347
6606		9	9									6									9							7	14	8	7		18				8					674
6607	8																													6												94
6608	9																									18			9			9	9									248
6609	9		8	17		9			15	6	6	9		8			7		9							14		9	9		9	8	18									1328
6610						7			7		6	14																				9	7										159
6611	22	14	6					7		13	6	24	7	15		6			9					13	7	14	6		9				7							9		717
6612									9																	7	38				9					7		7				475
6613		9						5								9															9												177
6701		9								9		9				16										23					6	9	9			14				9		467
6702											8																		8						9								125
6703			8	9							6			14	15			9						7		27			8		20		16			9							597
6704					9				15	7																8							7										151
6705		7		9					14																									9								120
6706	123	18	6	9	8									32	8														31	15		9	35									1022
6801	30		8			9			9	8	8	30			9	7			9					8		38	18	8	8	15	16	25	22		9		8					1855
6901				7					8						8											14					9												339
6902	9	9	6		17				7	18	8			15		9								22	7	39	18				7	16	7	27									1345
7001	18		21						8		17	9										7		7		2					9	7	9	25									713
7101																																										50
7201		7	14	18		9			8	8	15	8		15	15	27										9		9			27	9	27	46		8	6					1024
7202	18	7	8						8		7			8	14														23	8			16										358
7301	7		8		9				23		6			6		7										4			14	6													319
7302	9		8	7					17	8	8	8		8										8				8														340
7303	34	42			7	9		17	50	49	40	40	8	23	27	7		9		7				8		93	32		16		15	31		18		29		9		25		2139
7304	49	58		17	8	41		8	57	17	55	24		28		17	8	17								111	9	8	21		27	16	51	39		44	8			9		2739
7305														31	8	8														20	7												144
7306	98	47	14	35				5	78	34	73	47		36			7			7				9		23	14		13	18	29		56	8		29						1926
7307	44	9			30	8			8		29	31		8										18		30		8	15	15	9	7	7			8							663
7308	281	195	232	100	76	42		33	350	260	286	166	24	255	11	142		41	8		7			128		473	55	72	197	167	175	33	425	115	9	110	15			15		12563
7309	75	41	58	31	8			17	82	55	43	47		68	42	56			9					53		85	21		62	14	25	42	63	24		15	9					2972
7310	16	38	30	24	31	7		5	15	25	15	42		39	5			6						7		22	16		16	21	50		49	22		25						1449
7311	56	31	25	18	61	8			26	17	17	9		20	15	9		8	9		7	9		9		68			14	14	24	16	24	9		16		7				1512
7312	53	79	8	35	22	10				31	17			23	9	9		23	9		7					178			15	7	52	18	87	44	9	9				9		2443
7313	68	35	32	40	18	8		9	28	58	23	38	8	36	32	15		8	8					8	9	86	8		48	23	43	16	77	18		9	9					1678
7401	40								28	7	14				8														16		9												308
7402		36	21			15		25			6	8												8		22		7	20	14	24		16			12	8						625
7403	76	35	29	8	47	17		50	23	34	37	22		36	5	25								20		126	59			14	23	13	24	49		37						3037
7404	40	7	32		8	42	7	68	49	62	56		8	14	15			15						9		122	23		28	30	44		80	9		21	8	8				2651
7405	40	33	12	15	58	27		92	57	25	58	16	8	29	15	21		8						8	7	100	24	8	31		26		9			14				15		2066
7406	18	7	8	41				8	58	57	15	15	8	32	30	26								14		74	16	14	23	14	9		9			7						1218
7407	76	16	9	40	26			25	34	33	39	17	9	8	31	23			15					9		73		16	28		16	7	16	44	18	16	30	14		18		2148
7408	88	47	24	40	9	18		42	66	26	76	24	9	22	44	18		8						24		111	8	33	9	37	35	29	32	14	16	18				9		2481
7409	9	25	15	8	21	8		25	18	15	24	8	8	37	27	25			8					16		100	14	15	14	23	26	9	30			15	8			15		1616

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15			SUB-TOTAL	GRAND TOTAL	ZONE NO.
6101		3		1				1						5	13	6101
6102	1	4		11	3	3		1	18	3	55			99	461	6102
6201	1		1		2				5		2			11	123	6201
6202		3		2	7			1	9	3	3			28	651	6202
6301									2		2			4	75	6301
6302															187	6302
6303		5	1	1		3		4	23		14			51	2749	6303
6304									2		2			4	638	6304
6305									3		2			5	227	6305
6401									1					1	92	6401
6501		1	2	23	3	3		7	15		18			72	985	6501
6601		7		19		3		14	24	2	17			83	1705	6601
6602	3	8	9	9		2		17	31		23			95	1259	6602
6603		4		12		2		4	14	2	33			71	737	6603
6604	3	11	1	19		4		18	37	3	40			136	1377	6604
6605				4							9			13	360	6605
6606	1	7		5		2		6	8	3	25			57	731	6606
6607				3				5			1			9	103	6607
6608		1		4				2	13	1	6			27	275	6608
6609	1	7		6		3		11	33	11	22			94	1422	6609
6610		1						3	12	1	3			20	179	6610
6611		7		9		2		2	14	7	9			50	767	6611
6612				5		2		1	11		2			21	496	6612
6613						4		5	10		1			20	197	6613
6701		10	3	12	1	4	2	6	38		22			98	565	6701
6702		3	1						5		3			12	137	6702
6703		2		5		3		4	12		7			36	593	6703
6704		1		9					3		2			7	158	6704
6705		2			1				3		4			10	130	6705
6706		5		4				6	1	6	3			25	1027	6706
6801	2	27	1	7	7	6		27	37	1	12			127	1982	6801
6901		2		5		3		4	15	6	6			41	380	6901
6902		3		7				8	19	5	14			56	1401	6902
7001		1		1					7	1	2			12	725	7001
7101								1	1		3			5	55	7101
7201		1		4			1	2	15	2	9			34	1058	7201
7202		1	1	11	1		9	2	38		8			71	429	7202
7301	2	4		3		1		4	2		5			21	340	7301
7302		7		30		2		5	21		9			54	394	7302
7303		21	9	49		12	2	28	76		37			230	2369	7303
7304	3	24	1	32	1	5	1	28	52	4	33			186	2925	7304
7305															144	7305
7306	6	22		57	4	9	1	34	57	2	58			250	2176	7306
7307		12				5		1	1		5			24	687	7307
7308	8	119	11	190	26	51	4	73	292	12	295			1081	13644	7308
7309	2	35	1	36	11	17	2	18	55	7	34			218	3190	7309
7310	2	12		47	1	14	2	24	30		31			163	1612	7310
7311		11	2	22	1	16		33	37	3	33			158	1670	7311
7312		3		19	1	10	1	25	62	5	22			148	2591	7312
7313	1	18		36	3	13	6	16	86		26			205	1883	7313
7401		4		3		5		2	7		3			24	332	7401
7402		1	3	4			1	1	5		11			26	651	7402
7403		40	2	39	6	8		24	56	2	41			218	3255	7403
7404		14	4	17	1	3		18	49	3	22			131	2782	7404
7405		8		15		3		9	18	1	16			70	2136	7405
7406		16	1	24	2	10		9	19	1	18			100	1318	7406
7407		14		26	1	18	4	21	51	1	34			170	2318	7407
7408		7	1	15	2	8		15	28		10			86	2567	7408
7409	1	5		14	6	5		9	44	2	13			99	1715	7409

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Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410				24			27		9		7	18							9	18		14								141	16		9	16			16	7	9	34	48		78	44	254	71	22	66	62	64	38		58	48	46	26	56	80	15		7410
7411							34	18	18		14	7	9	18	7		8					16	6		9				7	26	9		7			7	7			31	40		27	9	192	54	36	38	62	35		27	58		33	7	59	26	9		7411
7412						8	15				18	8		17	21					8		6					8		8	6	15		6	23		12		6	8		33		14		230	50	36	31	15	21		21	29	24			9	40	15		7412
7413			9	9		9						39								9							18		9			7		7		27		7	17		9		39		76	20	7	44	26	62					21	40	38	42	15		7413
7414							25					9		7	7		8					8			9								9	9				8	9				18		7	15	86	14	16	53	22	9			39	26	50		18	9	15		7414
7501				18			50	9				25	7							18	7										9										9	23			7	68				10	8			25	59	16			26	8		7501
7502																																																					7							7502
7503		7							9		8		7		6							7									9										8	8				14		8					6	50	59	92	8	24	60	25		7503
7504							34				20	9								15	7		9	8				13				8	7	8		8	17	21	25	57	53	8	55	17	391	60	21	31		23	28	14	79	49	81	33	8	42	33		7504
7505		8					23				7		23		7						8	13			9			7			8		25			18			8	36		26		266	64	13	17	39	47		7	49	39	42	63	35	8	8		7505
7506						8	33				12	8								14	6	6					6				8		8	35		8	8		8	56	45		33	28	313	39		9	9	25	6	6	30	47	49	14	45	59	24		7506
7507				9		8	35				20			9	12		6			9	12	30			9			8			32			9					8	40	37		43	31	141	40	37	8		28			20	8	16	15	8	9	8		7507
7508							7																																		8								15				17	8		9	9	23		7508
7509		12		12			32				24	18								15		21					9			23	9		15			23	16	6		27	14	31	24	8	324	51	8	28	17	44	6		44	29	28	46		44	35		7509
7510							9																				22			8	9					8	23			27			20		123	33		23	9	31	18	14	26	6	30	24	23	35	27		7510
7511		7		18			18						7		7					18				9	16						9		9			6				26	8				49	17	17	9		17			17	25	23	9	9	43	15		7511
7512																				7																							7		16																7512
7513				9																			9										9			9									16				16					7	8					7513
7601							18					9								9		9																13		16							9		9	9						8		18			8	7601
7602																																											9				7													7602
7603												7										9																							7			7	7												7603
7701															7																			7														7												7701
7702																																																													7702
7703						18	9				9				9							13					7				8								8	8	9		8	8	170	35	7			17		7	30	17	8	15	18	13	8		7703
7704												14	14		8							7											7											7		8				9					15						7704
7801				16			128		26			14	30		32		9		18	33		14	18		25		43	6		9	24	17	39	16		18	8	15		126	117		24	37	448	122	24	65	183	78		7	136	125	96	106	92	96	94		7801
7901							36				6	9			17							6	9								18		18	8						20	8		12	8	65	12			8	8			50	23	16	7		8	14		7901
7902												9																			8										8		15	22	60	7	8					8		6		14	16	26	8		7902
7903				9		8				12	6	9	8		18		12		9			6				6				31							15	14		8	21	8	13	15	232	77	14	29	23	39	18	18	8	27	32	8	15	6	21		7903
7904		8				15	15				12	8			21		8	6				6								23	21						8	6			6	6	24	8	194	15	33		15	14		14	14	22	8	6	8	40	23		7904
8001		9		12			27					18	27				7			18	9	7					29				7		7	7		27				7	9		38	9	188	37	36	24	79	31	9	17	15	44	17	9	32	44	26		8001
8002									9		7										9				9		9				16	7	16	7						29	7			7	29	42	17	9	18	16				20	7		13	32	18		8002
8003		22					9	9			34	9							9	27		7			9		9	14		35	9	16	7			9	7				49		67	9	387	78	33	18	53	49		20	33	67	9	9	18	33	34		8003
8004			9				9					34	18		6		9			9					9								36	34		64	8			8	25				41	24	8	24	18	53			48	9			42	34	15		8004
8101				7					18																						9		9												19					8							9	16			8101
8102				9		7							9		6							9	7		16		17									8	3			29	39		43	8	66	32	9	16	33	9		12	20	31	8	7	23	9	14		8102
8103					6										9					3											9														44	9	8						8		8		24		8		8103
8104																							7																										16					8			16				8104
8105																																																		9										8105
8201											17				8							9			9						9					9	8			25	8				17	7			9	9			7		15		18	9	15		8201
8202																																																													8202
Sub-Total	8	362	117	603	67	188	732	640	216	89	909	1613	1152	675	1252	352	697	93	277	1323	141	720	482	192	487	127	550	142	119	996	1877	350	1339	708	50	1045	372	308	337	2095	2763	14	1842	653	12479	2939	1432	1553	2437	1697	307	590	3021	2693	2094	1184	2192	2453	1608		Sub-Total

External Stations

3												1	3	2	2			1		2									6		3							3			1		4		15	2	1	2	2	3			2					2			3
4		4		5	1	3	9	3	5		3	9	3	1	10	2	3			5		7	1	1	3		1		2	24	15		5		2	8	4	5	3	36	12		21		130	28	16	10	5	13		2	17	19	13	11	20	5	5		4
5			3								2		1												1	2					2									3	1			1	8			3	2	1		1	3	4		1		3	3		5
6	2	31		1			4	2	1		28	7	13	11	12	4	3	2		11	3	8	4		10	1	12			19	9	3	4			1	6	5	8	32	15		65	6	232	28	29	13	21	38	9	5	22	24	10	29	32	16	14		6
7			2	2							2				5							1		2								1				1			2		3		5		10	8	4		3	1		1	4	3	2	3	3	7	1		7
8		6			3		3				5	1	1	2	5	2	3					2		2		1	6				3		2				3	2	1	12	5		11	1	88	21	15	13	19	24	4		10	2	1	6	5	13	13		8
9									2		1		1														4									2	13		2	9	12		1		6	3			1	4		2	2								9
10			2		2		1				10	6	19	3	15		5	1	3	9	6	2	2	2	15		3				16	3	2	2		1	3	3	5	15	26		36	3	107	14	12	25	27	23		3	16	12	2	4	10	13	8		10
13	4	12	3	20		1	21		11		2	43	41	5	40		10	4	3	23	5	14	4	12	52	2	21	3	12	11	28	14	25	12	4	19	44	8	26	72	60	2	53	8	321	64	42	34	64	73	7	2	56	36	36	18	40	38	44		13
14		2							2		3	2	5	3	1	2	1		3	1	2	2				2	3			1	1	11	3					2	1	1	5		2		24	5		4	1	3		1		3	1	1	4		3		14
15	6	37	2	6	1	1	2				31	17	15	3	24	8	16	2	3	13	6	12	5	3	17	6	6	2	7	1	21	8	8	9		14	22	3	5	34	17		53	19	307	27	18	29	14	16	1	14	45	31	18	29	47	10	11		15
Sub Total	12	92	12	34	7	5	40	3	21		87	86	102	30	117	18	41	10	17	69	22	48	16	22	98	14	50	7	22	58	98	37	49	23	6	46	97	31	53	214	157	2	251	38	1248	200	137	133	159	199	21	31	177	134	83	102	161	107	102		Sub Total
Grand Total	20	454	129	637	74	193	2772	643	237	89	996	1699	1254	705	1369	370	698	103	294	1392	163	768	498	214	585	141	600	149	141	1054	1975	387	1388	731	56	1091	469	339	390	2309	2920	148	2093	691	13727	3139	1569	1686	2596	1856	328	621	3198	2827	2177	1286	2353	2560	1710		Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
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Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410	62	53	17	86	24				16		18			18	18		7	7			7			17		91	16	8	31	15	42	35	148	42	14	26	9			18		2295
7411	78	135		26		18				9	23		9	52	31	35					7			15	9	70	18		22	15	9		40	42	24	16							1673
7412	8			9	31	8		24	8	15	21	23	15	39	21	71								8	6	24	15		21	15	8		8	8		12	6			8			1193
7413	60	44	17	45		9		9			25	32		15	16	42										71	7	8	29		35	26	66	52	26	8	9			9			1266
7414	16	9	54	26		17		17	34	15	24	16		82	23	16		31								20	15		24	59	18		24	14	9	15	8		9				1100
7501		9	8		8			55	25	8	17	37		23	14	8			13					18		82			78	15						8							828
7502																																										7
7503		17	16			65			124	122	25	15				33					8			42		30		8	15	15				9									959
7504	22	9	8		26	17		76	8	42	61	25	8	15	24	25	13		8		8				20	49	17	33	25		17	26	24	7	8	36							1949
7505			24	7	36			130	34	25	41	62		16	37	9		17	17		8			34	8	171	33	17	8	30	15	17	8	21		22				8			1778
7506	33	15	28		8	8		31	65	34	124	31	8	55	39	63	8	17	15					30		76	8		29	23	6	9	22	8	6	21							1823
7507			8	28	17	46		15	57	75	15	31		45	31	30		39						30		94	8		23	8		12	15	21		15				12			1380
7508			23					8	8	8	14			8	8	9																											182
7509	8	46	15	6	92	40			31	24	39	31	8	69	52	85	8	8	8			14		8		61	8	8	8		14	8	15	23		53				15			1848
7510	9	40	21	15	15	22			8	30	31	31	8	15	23	24		46						28	7	45	35		20	7	15	21	7			20				8			1107
7511	16	35	118	15	16			17	17	17	39	33	24	123	15			8						34		40	14	18	60	37	42		35	58	9	25	17						1293
7512									15		8			8															7														68
7513	18							10	8	17	9	23		23	77									14		40	17	54	85	108	16		16	9			8						635
7601	9								8	17	15													8				8															200
7602																																										14
7603	7	7						8	8	8						9																	22										106
7701														14										7												6							48
7702																															7												7
7703	17	15	8	9	15	18		26		50	21	54		15	8	25							7	30	17	174	25	7		24	9	9	7	8		8				7			1072
7704		9	6						20	8														17		26			31				7										213
7801	98	54	27	66	39	77		37	51	162	90	82		60	49	20		63						185	28		21	389	135	223	27		114	36	79	48	20			16			4830
7901	16	9	15	7	8					48	16	16		8	28	12		8						25		46		15	15	8	18		34										738
7902	15			8	8			8	17	15				8	8	8		31	8					7		364	15	54	8		12	9	7	15									840
7903	22	9	15	23	31	78			48	8	29	15		14	14	35	8	62	8					8	31	142	24	8	68	15			15	21	8	22	6			8			1590
7904	6	15	8		58	15		21		18	23			8		47		69						32		216			31	15	7		8	8		6				17			1235
8001	59	9	15	18	18				8	9		9		14	15	40		7					7			20	15	20		7			33	75	9	15	7						1311
8002	35	9		9		8		8	15			22		8	21									9		29		9			16		40	9						9			609
8003	112	49		69	60				25	15	8	6		45		44		22			20				14	130	9	7	14	15	48	47	145	77	18	62	16			39			2323
8004	26	59		88	24				7	32		8		23		8		22								37	15	8	35	8	93	18	68			16							1204
8101	9	16		32		9			8		6					10										59					9	9	35				8						305
8102	26	16	14	17	12				57	24	21	24		43	18	24		19					6			50			23	21	9		39	9	6	15	27						1025
8103	9		6	18														8						8		18			6				22			29							262
8104																																										47
8105																																										9
8201	9		8	9						8		6		15	8									7		10			8	8			7			9							321
8202																																										
Sub-Total	2330	1669	1210	1249	1093	856	7	965	1981	1809	1864	1391	177	1854	1117	1266	66	636	200	14	104	48	7	1069	207	4682	738	901	1648	1252	1324	609	2382	1189	310	1033	258	45	9	315			109689

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No
7410		7	2	18	9	11		20	48		17				132	2427	7410
7411		7		18		10		8	37		6				84	1757	7411
7412		4		12	2	5		10	24	3	12				74	1267	7412
7413	1	12		26	3	10	2	11	41		24				130	1396	7413
7414		3		3	6	4		4	5	3	7				37	1137	7414
7501		3		1			4	21	6						37	865	7501
7502																7	7502
7503		1							1						2	961	7503
7504	2	3	4	15	2	2		12	48	6	27				123	2072	7504
7505		8	2	15	2	4		10	38		17				96	1874	7505
7506		12	3	15	7	9	1	13	44	2	11				118	1941	7506
7507		11		13	2	5		7	23		11				72	1452	7507
7508								1			1				2	184	7508
7509	2	5		17	13	2	2	13	10	1	19				90	1938	7509
7510		12	3	15	2	2		8	31		12				85	1192	7510
7511		6		40	10	16			8		5				81	1374	7511
7512									1		2				3	71	7512
7513				4				1	4		1				10	645	7513
7601		1						1			1				3	203	7601
7602																14	7602
7603																106	7603
7701																48	7701
7702																7	7702
7703		5		6	1	2		3	11		5				33	1105	7703
7704		3		1		1		3	1		10				25	238	7704
7801		15	1	121	8	26		44	91	6	44				356	5186	7801
7901	2	1	2	3	2			2	11		6				29	767	7901
7902	1				2						1				12	852	7902
7903		5	2	13	2	3		3	25	3	22				78	1668	7903
7904		5		13	5	3		3	17		13				59	1294	7904
8001		6		9	1	4	3	12	32	1	13				81	1392	8001
8002				1	8	6		1	8		11				37	646	8002
8003		7		27	5	33	2	14	53	2	22				167	2490	8003
8004		13		38	1	54	3	7	34		15				159	1363	8004
8101		7	3	10				2	8	3	1				35	340	8101
8102	3	19	1	80	8	10		1	38		24				184	1209	8102
8103		2		1	1			4	9	3	11				37	299	8103
8104				2		2			5		1				10	57	8104
8105					1		11				2				14	23	8105
8201																321	8201
8202																	8202
Sub-Total	48	707	69	1400	198	488	64	799	2248	133	1514				7668	117357	Sub-Total

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42		Total
3		2												3	1		7	2	3													4	2	4		3								83
4	7	4	4	9	2	1			17	7	13	4		7	4	5		1	1						3	5	19	4		3	5	2	8	4	6	5	3		1				664
5	1					2			1	1	3				1								2											2		2								60
6	21	7	7	23	7	4	1	1	19	19	16	20		20	13	26		2	1						8	9	104	7		10	14	2	15	11	20	10	44	5	4				1334
7	3		1	9	4	1			1	2	5	1	1	12	1	16		1	1							1	2	4	1		1	1	3	12	2	3	9	2	1	1	2		180
8	15	5	8	15	6	4			8	3	8	3		13	1	18			1						5	3	26	7		4	1	7	8	27	39		3						551
9														1		1														1	2	4		4	1					17			94
10	16	9		20	1	17			7	7	10	3		8	2	4			1						3	2	35	3		3	4	17	2	9	10		4	1		1	4		703
13	50	23	36	50	8	3	2	1	24	59	35	21		40	25	2		7							12	1	89	17	6	38	12	25	7	33	26	6	32	6	3	14	3		2350
14	3								1									1								1	4						2	2	5							1		136
15	22	13	13	11	2	17			18	15	20	8		9	4	8		1							4	14	35	11	2	13	3	10	16	10	7	6	18	7	3				1403
Sub-Total	138	63	69	137	30	49	3	2	96	113	113	61	1	117	53	83		13	5				2	35	36	314	57	11	76	42	71	61	114	116	32	113	21	12	33	10		7558
Grand Total	2468	1732	1279	1386	1123	905	10	967	2077	1922	1977	1452	178	1971	1170	1349	66	649	205	14	104	48	9	1104	243	4996	795	912	1724	1294	1395	670	2496	1305	342	1146	279	57	42	325		117247

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No
3				1		1					1				3	86	3
4				11				2	53		27				93	757	4
5											3				3	63	5
6		12			1	1	3	4	43		93				157	1491	6
7				1					1	3					5	185	7
8				2				1	8	1	4				16	567	8
9		1		2					1						4	98	9
10		1		3		1		12	12	1	4				34	737	10
13		53	1	43	1	9				3	57				167	2517	13
14					3	1			8		1				9	145	14
15	1	28	2	93		4		4	57						189	1592	15
Sub-Total	1	95	3	156	5	17	3	23	179	8	190				680	8238	Sub-Total
Grand Total	49	802	72	1556	203	505	67	822	2427	141	1704				8348	125595	Grand Total

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Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	ZONE NO.
6101																																																																6101
6102													9		9				16													9														9																6102
6201									9																	34																	18												8						6201
6202							9	9		18				18		46				9														9		7		18	36	27	54				34	8					9		18					27	15		6202
6301																											9																			9																6301
6302							9							8																									8	17			9	18	9								25	8							6302
6303		8		27		9	182	191	64		7	9		9	27		27		36	27		7			36	14	18		64				18					18	25	18	27	54		53	9	293	9	16		34	36			27		27		51				6303
6304				9			264	18				18	9				27								9						18										34					18						9		9							6304
6305							55						27									9																																17				9				6305
6401																																																									7			6401
6501							7					55	16				9		18	9		9	9								28		9							7					8		7		16				7	15				7		6501
6601				18			18	18			36	9	36	73	63	18	46		27								9				43		27		9	9				17	8		18		117		45		53	7		25	9	86				46	8	6601
6602		9		18					27		16	45	46	46	7	27				18				18	27		9				27	46	9	55		9				9	27	82	7		89	9		26		8			36	9			9	7		6602
6603				18			9					18	64	17	25		34		9	9										9		18	62	9		9				18					41	18		45							17				7		6603
6604							18					63	7	16	9	9			36	43		6	9	9		7	9						16			9					26		25		35		9		7	9			34	15			18		8	6604
6605				27			27	9				9	72	16	18					9			9	36									36	25															9												6605
6606				9			46					27		55	27	27			18	9			9	18			9						27											17			8														6606
6607																																								8																					6607
6608		16									18				9		9			9		7	9										9								18					27		7													6608
6609				8		8	9		18			36	18	18	7	18	9		9	27		7	9								27		9	9						9	16		27	27	141	16	7	9	7					18	17	9	42	9	9	6609
6610													27																											7					8															6610
6611									9						8				7	7												9		14								7				53	8			7				17	7				6	6611
6612											9					9	9		9	9						9	7									62				9			9		71												7	9		8	6612
6613																	18					7																		8					9	7											46	9			6613
6701							36						27	8													16				36					9										27					14			8				9			6701
6702							16								7	9																									7										25									6702
6703		9			9		18	9				9											7		16						9			9						17	17				15				18							9				6703
6704																															9									7																				6704
6705							27																																																						6705
6706				9						16				8	26																									9	44			17	33		9	106	361					18	9		123	227	15	6706
6801					15		27	36			28	43	36		9										27		8	18			191		27			18									114	18				27			18	49		7	44	63	34	6801
6901		9									9	18	18																				8													7			9				15					9		6901
6902						23	9				9	36	9	43	43	36	18			9					9								23								13		18	36	174	27	7	9		7				9			9		15	6902
7001		7		9			18						46			14	7			9		14														55									9	9			9			34	9				9	27			7001
7101																																				9																									7101
7201													9		9		9						62								25			27	9	73	27			26			9		100		18							7		9				7201
7202							18																													27				8					16								25	8	8				8	7202
7301				16			34						18																																	9								8	9						7301
7302				36			18						27																		25										8								9				8		59			9	15	7302
7303						17	16	34			7	17	9	34				8		9	7		9	8				7								17	8	18		17	52	17		8	100	35	24	8	7		7		32		7	16	9	52	15	7303
7304				18			63	18					9	8	26				18	8		7				7	17			61			13			9		9	16	34	17	23	9	17	194	8		27	26	8			23	15	17	15	50	26	8	7304
7305							18					18	64																											17	32						8		18								18		8	7305
7306				9			80					9			7		26			27			9			8				18		27			9				15			9		25		36	9	24	35						8		17		7306
7307															8					27							8			35		36								9					26		10	45				8	26	25			9	15	7307
7308		9	34	25	9		235	36			18	103	76	36	34	82	17		25	189		16	53	16	27		16			44	177	35	167	27		89	8		58	92	221		42	8	427	191	66	142	126	61			222	274	226	26	123	274	124	7308
7309							27					18	18		26					8			9	7	9					8			18	9		18				25	88				92	83	8	26	16	9		8	23	15	33	19	9		18	7309
7310			18				7				7	18			7	8			16	7													14			9				8			18		63		8	7	31	18			8	15			33	16	8	7310
7311							16					53	26	9	44					9										79	9									15	17	18	7		43	35	7	18	44	7			9						23	7311
7312							34				16	9			7					7		7					18			343				9					9	7	34	18	24	45	185	23	16	62	26				40	31		9	9	18		7312
7313							9						18	9						9			9		14	8					52	8	7			6					35	18	35		9			7	8					9		9		15	7313
7401				9																																				7															8					7401
7402								9				16																						25												8									17		9	9		7402
7403				27		25	27	9	17		16	18	27	8	17	9															16						17	7	8	59	42	8		8	262	30	17	9	40	8			115	182	65	17	41	17	32	7403
7404						8		9			7	71	9	51	15					9		12					16			44	32		73				8	9		8	24		8	34	257	14	17		14	9			166	38	75	7	33	26		7404
7405			8	8			27				8									17											23							8		17	7	8			25	280	26	8				8	32	25	93	60	36	19	17	50	7405
7406																							7				9				7					9				8	23		7		61		8	10	9				17	17	38		23	42		7406
7407			9				60				9		9		9					17			18		9					141	44		9							9	52	9		9	94	10	51	18	9			9	41	33	17	7	27	9	26	7407
7408				18			9				7	46	16	7						7										148	54	9	7	27					9	52	34	14	17	7	258	9	22		18				26	52	26	16	27	18	18	7408
7409				8								8								17		6	8							15	34								15	15	26	8		15	147	23	14	23		15			15	23	74	8	34	18	15	7409

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Zone Of Destination

Zone Of Origin	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202		SUB-TOTAL
6101																																											
6102										17				12																			9										90
6201																																		9									78
6202	7			9		27						6														9			9											8			446
6301																																					15						33
6302			15								15	8												8					8	54			8										228
6303	9	16				9			32	27	8	17		46	17	36			46							98	27			23			27	7		18				7			1957
6304																																		8									451
6305	9	35									9															20	9								9									208
6401										8		18																															34
6501	7		6								6	6																		8	9				9									289
6601			23	36		36			9					9					27		7					7	27		9	8	18	9												1125
6602	18	9				9				8				15												8			17					46										907
6603	9	18	8		9				25						8											13																		543
6604		9	29							8		8				9						7		17		17	8				27													591
6605																																											304
6606																														15			8			8								338
6607																																											8
6608																										18						36				14								206
6609	9	8		17					8	8				8					9									7	18		18						8							726
6610																																											42
6611									7					6					36																					18			226
6612		9							9						9												27				9													299
6613		18														9																											131
6701												18				36										7														18			270
6702										8																									9								81
6703			8																							26																	205
6704												15																															31
6705				9																														9									45
6706	176	88		9								9		54	15														60	23		35	26										1526
6801	9	18	15						34			26		8										8			7	15	15	15		18	9				8			9			1062
6901																										20					27		9										156
6902					26					27	15					9									9	8	18			8		16		43									772
7001		9			9						8	9																						9		9							338
7101																																											9
7201				16		9			8	17	9			8	14	18										13					63	18	18	18									653
7202	9	18	15						25					15	39														14	15														268
7301			6		9																								9														117
7302	9		15	7	8				59	25	8			8	15									17				9					35										428
7303	9	9			17	8			8	25	87	8		15				9								41	8				9	9	9	18		8		9		25			994
7304	44	44				59			17	50	34			8	31	8		9								82	8	42			18		35	42		25							1381
7305			11								8			46	23														31	9														348
7306	56	24	8	15					8		12	23		14												17							9	17		15								626
7307	44				8				8	8	8	39		8										18		30		6	23	15	25		8			31								566
7308	119	124	122	25	58	7			247	176	112	54	8	101	66	67		53	8			7		109		306	48	41	116	131	109	29	182	60	39	64	31			9			6914
7309	16	53	29	7				8	26	8	31	25		29	6	25	9		9					17		40			92	23		25	22	17		9							1173
7310	26	35	15		9			18	8		21	15		23														9	9	9	14		24	18										592
7311	16		29	9	47	8			17			65			6	7		8	18							56					9		9	9		7								817
7312	44	44								9	17			9		7		22	44							127			32	23	79	14	44	9	9	9			18				1568
7313	62	9			9	7						8	15	8	12	8								18		17	8		23		16		18	44		8							585
7401	16																							8							9												57
7402		22	6															9														16				7	17						170
7403	26	16		8	23			25		42	8	25			17	7								15	7	76	31		24	8	25		26	7									1616
7404				9	25	34		51	15	32	16			8		8		8						34		56	25		15	17	17	9	41		9		8			7			1547
7405	8			8	76			64	51	42	17	8		16	32			8						17		40	17			8	8		26			8				8			1288
7406	9			9		9			17	8				8	33	20								8		79	31		15														549
7407	61			9	35	9		18	42	25	8	7		8	23	9			9							27		42	48		9		9	27		7	63			18			1277
7408	53	26	34	35	18	18		16	51	41	8							8			7			9		18	17	121	26			9	17	35	9	22							1601
7409		9	8	8				25		24	8	8		8	8	15			8		6			17		116	8			23	36	9				8							918

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15				SUB-TOTAL	GRAND TOTAL	ZONE NO
6101																	6101
6102																90	6102
6201																78	6201
6202																446	6202
6301																33	6301
6302																228	6302
6303																1957	6303
6304																451	6304
6305																208	6305
6401																34	6401
6501																289	6501
6601																1125	6601
6602																907	6602
6603																543	6603
6604																591	6604
6605																304	6605
6606																338	6606
6607																8	6607
6608																206	6608
6609																726	6609
6610																42	6610
6611																226	6611
6612																299	6612
6613																131	6613
6701																270	6701
6702																81	6702
6703																205	6703
6704																31	6704
6705																45	6705
6706																1526	6706
6801																1062	6801
6901																156	6901
6902																772	6902
7001																338	7001
7101																9	7101
7201																653	7201
7202																268	7202
7301																117	7301
7302																428	7302
7303																994	7303
7304																1381	7304
7305																348	7305
7306																626	7306
7307																566	7307
7308																6914	7308
7309																1173	7309
7310																592	7310
7311																817	7311
7312																1568	7312
7313																585	7313
7401																57	7401
7402																170	7402
7403																1616	7403
7404																1547	7404
7405																1288	7405
7406																549	7406
7407																1277	7407
7408																1601	7408
7409																918	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
AUTO, TRUCK & TAXI PASSENGER TRIPS
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Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410				7			9		9		7	18	18							18										150	9			18			9		9	9	44		49	70	156	16	35	16	53	53	16		17		17	7	9	36	15	7410
7411							25	9	35				27	26																132	26			9			18			18	44		18		116	53	9	9	26	9		14	68	9			9	26	9	7411
7412						15						23		8																9	8					8		8	15		17	31	8		197	21	14	21						8	8			26	8	7412
7413				9								18								9									9	9						25			8		9		16		9					9				9			26	61	8	7413
7414														9			8					17	9										27	18				9		17				8	41	8	9	33				7	7	25	59		35	18	15	7414
7501				27			9					43	9																										8	59				15	9							9	34	8	9	9	18		7501
7502																																																												7502
7503																															9																	9						34	34	92	17	18	35	25	7503
7504							17													8			7	9												8	25		59	34	25				251	17		17					25	21	42		32	60	16	7504
7505		8					18						24		8					9	7										8		34			17			25	25	25			17	172	8			44	16			42	9	50	15	45	24		7505
7506						15	8				6				9																		15	17				8	85	17	8	12	8	139	23	6		9					16	34	31	8	8	9	7506
7507				24		8	26				6			18	8										18			15			34			9					8	9		23	46	71	8	29	56		8			8	15	8	8					7507
7508																																								8									15										7508
7509		12					55					27			8					8		6								54							32		14		46	14	8	132	31			9	8			8	15	8	14		8	15	7509
7510							17							8									9							15						14	39		15	8	31	23			67	6		14		12			17		32	25	23		8	7510
7511							36													18				9	36								9			9					8				34	9		7	7				15	17			9		15	7511
7512																				9																									15															7512
7513				9																			9										9			9									8				7					8	8						7513
7601							46					27			15					9		36																		8						9		18	44						8		9		8	7601
7602																																																												7602
7603																																																										7	6	7603
7701															7																														7															7701
7702																																																												7702
7703						27									17																17						8		17				17	8	92	8				8	6		24		17	10			25	7703
7704																																	9												10								7							7704
7801				9			72		20			7	15	10	17		9		18								26			9		10	9	9		27			25	44	74		10	47	339	48		27	137	17		9	62	31	60	89	65	24	69	7801
7901							27					27			8								18								15		18						8	8				47					8			31	17	16	17		17	8	7901
7902				9																7											15								8	42		8	14	54		23										42	96	8	7902
7903				9		8						9	8																	60							14	8				31		8	124	109	9		23	15			24	14		15	18	9		7903
7904						54	23					8					8													39	15						15							8	139	9			23				8	14	17		8	39	15	7904
8001							9				9	36								9	27		9		8											63				17			27	18	91		18	9	97	25	9	7	17	17	8		18		26	8001
8002																															9	15	9						8					7	25			14			14		18		7		9	9	8002
8003		9				8	9	27												18										26		9				9			35		42			7	179	18	24	9	18				26	42	26	9	9	18	9	8003
8004			9									9	18				36												18				43	9		27	8			17	34				36	8	8	9		62			14	9			36	51	8	8004
8101									9																																			57								9						9	8101
8102																			14			9																	8	25		15	31	40	9		7	9			7			17			24	8	8102
8103																				8											8													66		23						8		17		54				8103
8104																																															9												8104
8105																																																18												8105
8201				8			7				8											18			18						9					18			25					9					9				7	8		9				8201
8202																																																												8202
Sub-Total		96	78	437	33	225	1915	441	217	34	263	1051	921	582	600	312	326	8	276	711	41	207	308	121	263	88	204	40	91	1448	1068	149	833	343	18	696	262	111	410	1020	1542	354	603	583	6718	1086	651	850	1520	577	55	175	1531	1496	1376	544	1303	1636	858	Sub-Total

External Stations

3																																																															3
4																																																															4
5																																																															5
6																																																															6
7																																																															7
8																																																															8
9																																																															9
10																																																															10
13																																																															13
14																																																															14
15																																																															15
Sub-Total																																																															Sub-Total
Grand Total																																																															Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
AUTO, TRUCK & TAXI PASSENGER TRIPS
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Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410	26	35	8	44	9					9	22			40		18								26		31	26	8	8		44	16	97	18		9	9					1313
7411	26	58			18	9																		9	9	38			16		9		9	26									1060
7412	8	8	8		8			8	15	8	8	31		31	8	23			15					8		6	8		8		23			23		6				8			722
7413	9	26	17	19						9	25	36		18		17										53			17		17	9	24	18		7							555
7414	9	9	31	35		17		8	25	8		16		31	15	8		9											8	59	26		14				31						738
7501		9			17			8	15	25		8		37	8									26		26		8	54	8		9				8							532
7502																																										
7503			8						17	50	8					34					25			34		10		31	8	31													529
7504	7	18	15		18	17		25	25	8	25		17		8	25		8	59		8					28	25	15	25		34		8			25							1116
7505			32	15	8			68	8	8	16	34		17	16	18		25	25	17				17	17	36	16	25	8	9	7	25	8	8		26				8			1167
7506		22	15					23	24	25	71	8		39	47	31			46							12																	854
7507			8	18	8	16				49	9	23		15	8	23					6			8	10	56				8			9			52							789
7508			8						17																																	48
7509		40	23		16	45			17	32	23	23		31	8	62		8	16			8		15		12	31	15	31		56	8	23	15		15				8			1113
7510			8	8	15	8			8	16	39	8		8				46						8			8		23	8	15	6				8				15			638
7511		9	54		8				17	8	39	32		69	8									42		40		28	23	46	18		26	17		8	8						738
7512																																										24
7513		9			9				8	25				8	39									8		40	31	46	15	83	18			9									415
7601									34	25	46			8										8		25		15															398
7602										17																																17
7603								25	8			6				9																											61
7701														8																													22
7702																																										
7703	52	9	8		31	18		26		17		24		23	8	25								67	10	69	50			14		18				23							793
7704		9								17		10														10			38		9													119
7801	24	29	6	43	28	19		20	20	63	12	39		12		20		35						98	10		10	157	52	182	7		20	30	47	6	6						2439
7901	26									16	48			31	8			8						50		16			15	69	18		35						8					638
7902	15					8		31	7					15	15			31	15							190	8	31	15		20	9		8										744
7903	8	16		17	39	62		8	31	17		8		31	23	8	15	8	8					8	32	52	15	15	16	31			9	8							17		1017
7904					50	6		31						8	8	54		61						14		222	23		31	15		23	23	15							17		1045
8001	68	9	23	9	35				33	16		9		55	15	9									9	14	9	20					18	44	9	8							986
8002	24	35				34								8	6			23						18				9			9		33	9							18		370
8003	97	18		18	15				8	8	6			23		26		9								29	43		15	23	18	33	42	26	7	26					18		1095
8004	9	36		45	23					8					8	17										30	15		8	15	53	9	26										771
8101																								8		10					9		16				31						158
8102	18		12	7					50	26		37		15		40										6			15	15	9		18	8		9	31						539
8103	9																							31		6							9			31							270
8104																											8																17
8105																																										18
8201		9	8							8				8	15														17							9							227
8202																																										
Sub-Total	1315	1118	716	523	742	510		526	1128	1162	870	777	40	1087	645	765	24	405	398	17	61	22		823	113	2483	650	713	1078	1050	952	415	1102	732	155	553	266	17	18	227		63903

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No
7410																1313	7410
7411																1060	7411
7412																722	7412
7413																555	7413
7414																738	7414
7501																532	7501
7502																	7502
7503																529	7503
7504																1116	7504
7505																1167	7505
7506																854	7506
7507																789	7507
7508																48	7508
7509																1113	7509
7510																638	7510
7511																738	7511
7512																24	7512
7513																415	7513
7601																398	7601
7602																17	7602
7603																61	7603
7701																22	7701
7702																	7702
7703																793	7703
7704																119	7704
7801																2439	7801
7901																638	7901
7902																744	7902
7903																1017	7903
7904																1045	7904
8001																986	8001
8002																370	8002
8003																1095	8003
8004																771	8004
8101																158	8101
8102																539	8102
8103																270	8103
8104																17	8104
8105																18	8105
8201																227	8201
8202																	8202
Sub-Total																63903	Sub-Total

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
13																	13
14																	14
15																	15
Sub-Total																	Sub-Total
Grand Total	1315	1118	716	523	742	510		526	1128	1162	870	777	40	1087	645	765	24	405	398	17	61	22		823	113	2483	650	713	1078	1050	952	415	1102	732	155	553	266	17	18	227		63903	Grand Total

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SCHOOL BUS PASSENGER TRIPS
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Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409
6101																																																													
6102																																																													
6201																																																													
6202												9																																														9		
6301																																																													
6302																																																													
6303																																																													
6304																																																													
6305																																																													
6401																																																													
6501												9																																															
6601											9											9									18			18																											
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6611												9																																															
6612																																																													
6613																																				18																									
6701																																																													
6702																																																													
6703																																																													
6704																																																													
6705																																																													
6706																																								9	9																				
6801												18																													46																	36	27
6901																																																													
6902																																																													
7001												27												82																																			27		
7101												9																																															
7201												9												18										82																										
7202																																																													
7301																																																													
7302																																																													
7303																														18																														
7304																															46																													
7305																																																													
7306																																																													
7307																																																													
7308																																																													
7309																																																													
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7311																														18																														
7312																																																													
7313																																																													
7401																																																													
7402																																																													
7403																																																													
7404																																																													
7405																																																													
7406																																																													
7407																																																													
7408																															27			18																										
7409																															27																					6								

GREAT FALLS URBAN TRANSPORTATION STUDY
SCHOOL BUS PASSENGER TRIPS
AVERAGE DAY 1961

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Zone Of Destination

Zone Of Origin: ZONE NO	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	SUB-TOTAL
6101																																										
6102																																										
6201																																										
6202																																										18
6301																																										
6302																																										
6303																																										
6304																																										
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6401																																										
6501																											9															18
6601																															35											89
6602																																										
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6701																																										
6702																																										
6703																																										
6704																																										
6705																																										
6706																																										18
6801																																										127
6901																																										
6902																																										
7001																																										136
7101																																										9
7201																															132											241
7202																																										
7301																																										
7302																																										
7303																																										18
7304																																										46
7305																																										
7306																																										
7307																																										
7308																																										
7309																										119		92														211
7310																																										
7311																																										18
7312																																										
7313																											9															9
7401																																										
7402																																										
7403																																										
7404																					8					59		62							42							171
7405																										20																20
7406																																										
7407																										129		77														206
7408																										79		15		8												147
7409																										79		31														143

External Stations

Zone Of Origin: ZONE NO	3	4	5	6	7	8	9	12	13	14	15			SUB-TOTAL	GRAND TOTAL	ZONE NO
6101																6101
6102																6102
6201																6201
6202															18	6202
6301																6301
6302																6302
6303																6303
6304																6304
6305																6305
6401																6401
6501															18	6501
6601															89	6601
6602																6602
6603																6603
6604																6604
6605																6605
6606																6606
6607																6607
6608																6608
6609																6609
6610																6610
6611															9	6611
6612																6612
6613															18	6613
6701																6701
6702																6702
6703																6703
6704																6704
6705																6705
6706															18	6706
6801															127	6801
6901																6901
6902																6902
7001															136	7001
7101															9	7101
7201															241	7201
7202																7202
7301																7301
7302																7302
7303															18	7303
7304															46	7304
7305																7305
7306																7306
7307																7307
7308																7308
7309															211	7309
7310																7310
7311															18	7311
7312																7312
7313															9	7313
7401																7401
7402																7402
7403																7403
7404															171	7404
7405															20	7405
7406																7406
7407															206	7407
7408															147	7408
7409															143	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
SCHOOL BUS PASSENGER TRIPS
AVERAGE DAY 1961

TABLE C - 4

Sheet 3 of 4

Zone Of Destinations

Zone Of Origin	6101	6102	5201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6706	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	
7410																																																																		7410
7411																																																																	7411
7412																																																																	7412
7413																																																																	7413
7414																																																																	7414
7501																																																																	7501
7502																																																																	7502
7503																																																																	7503
7504																																																																	7504
7505																																																																	7505
7506																																																																	7506
7507																																																																	7507
7508																																																																	7508
7509																																																																	7509
7510																																																																	7510
7511																																																																	7511
7512																																																																	7512
7513																																																																	7513
7601																																																																	7601
7602																																																																	7602
7603																																																						8									7603
7701																																																																	7701
7702																																																																	7702
7703																																																																	7703
7704																																																																	7704
7801																																														119								79	10		119	69	89		7801
7901																																																		9													7901
7902																																														92								62			77	23	23		7902
7903																																																																7903
7904																																																													8			7904
8001												35																								123																											8001
8002																																																																8002
8003																																																																8003
8004																																																																8004
8101																																																					42									8101
8102																																																																8102
8103																																																																8103
8104																																																																8104
8105																																																																8105
8201																																																																8201
8202																																																																8202
Sub-Total											9	125										9		18						36	118			118		223				9	55					211				9		6		191	10		196	172	139		Sub-Total
External Stations																																																																
3																																																																3
4																																																																4
5																																																																5
6																																																																6
7																																																																7
8																																																																8
9																																																																9
10																																																																10
13																																																																13
14																																																																14
15																																																																15
Sub-Total																																																																Sub-Total
Grand Total											9	125										9		18						36	118			118		223				9	55					211				9		6		191	10		196	172	139		Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
SCHOOL BUS PASSENGER TRIPS
AVERAGE DAY 1961

TABLE C – 4

Sheet 4 of 4

Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410																																										
7411																																										
7412																																										
7413																																										
7414																																										
7501																																										
7502																																										
7503																																										
7504																										30		139														169
7505																																										
7506																												15														15
7507																										10																10
7508																																										
7509																																										
7510																																										
7511																																										
7512																																										
7513																																										
7601																																										
7602																																										
7603																											8															16
7701																																										
7702																																										
7703																																										
7704																																										
7801									30			10															198	46														769
7901																						8				158		100			53	9	18									355
7902									123		15															46	108															569
7903																																										
7904																																										8
8001																											53															211
8002																											9															9
8003																											9						18									27
8004																																										
8101																																										42
8102																																										
8103																																										
8104																																										
8105																																										
8201																																										
8202																																										
Sub Total									153		15	10									16					729	403	577		8	220	9	36		42							3,872

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15			Sub Total	Grand Total	Zone No
7410																7410
7411																7411
7412																7412
7413																7413
7414																7414
7501																7501
7502																7502
7503																7503
7504															169	7504
7505																7505
7506															15	7506
7507															10	7507
7508																7508
7509																7509
7510																7510
7511																7511
7512																7512
7513																7513
7601																7601
7602																7602
7603															16	7603
7701																7701
7702																7702
7703																7703
7704																7704
7801															769	7801
7901															355	7901
7902															569	7902
7903																7903
7904															8	7904
8001															211	8001
8002															9	8002
8003															27	8003
8004																8004
8101															42	8101
8102																8102
8103																8104
8104																8104
8105																8105
8201																8201
8202																8202
Sub Total															3,872	Sub Total

External Stations

Zone Of Origin	3	4	5	6	7	8	9	10	13	14	15			Sub Total	Grand Total	Zone Of Origin
3																3
4																4
5																5
6																6
7																7
8																8
9																9
10																10
13																13
14																14
15																15
Sub Total																Sub Total
Grand Total															3,872	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
TRUCK DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-1

Sheet 1 of 4

Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6704	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone No.
6101																																																																6101
6102		8									4	8	8	4	4							8	4				21					13				4							8		21	4			4			4									6102
6201						4	4																																								4														6201
6202				46			13					21	4	4									8		8	4	4		4							4							4		13		8			8		4	4	4							6202
6301																									4																																					6301
6302			4				17					4	4																																4					4					4					6302
6303		8	4	25	4	13	239	4				4	8	4	8		4			4		4	4	8	29		8	4			55		13					4		8	4			13	13	8	8	8	4		38	4	8		4					6303
6304							17									4	4					4	4		4			4			8										4		8		17																6304
6305																											8																		4																	6305
6401																							4								4																															6401
6501		4									4	8							4			21	4				8		17		25	8		4		4				4						8		13	4				4	4	4			4		6501
6601		4		17		4	4	4			8	17	4	4	4				4	8		4	13				13		4		13	8					4			4			13	4	17	8	4			8		13		4		4		8		6601
6602		4				4	13	4				13	8	17	13	4		4				4											8		8						8				4	4	4			4	4	4	4						6602
6603		17					4	4				8	4	8						13							8				4		8								4		4	34	21					4										6603
6604								4				8	4	4	8		4		4	4		4	13					4	4		4	4		8						8		4	50		17	8		13		4	4						8	6604
6605													8	8	8					8			4																				4	4	8	13		13					4							6605
6606								4						4	4								13										4								4		4	8																	6606
6607										4	4		4								4				4						4		4											4	4								4								6607
6608											4	4																			4		4				4							8								4								6608
6609							13					13	4	4	8	8				29		13									4		13				4							4	4		4						4		4	8			4	6609
6610											4							8				4					4						4													4					4									6610
6611		4					4	4			17		8	4	4	8				4	4	4	4	4			13				4		4			34				8		29		29	13	21	4		8		13	8		8				4	4	6611
6612		4		4						4	4	4	8		13	4	13					8									4					8								13	17				4	4										6612
6613							4																																																					6613
6701				13			25								4					4					21		4				4													4				4												6701
6702				4																											8													4															6702
6703		21					17				4			4	4			4			8						8				13							4		4	8		4	4					4	8			8						6703
6704							4								8																4			4									8	8			4	4	4		8								6704
6705		4									17										4													4						8			4																	6705
6706																																								4																				6706
6801				4		8	71	8	4		24	8		4			4	4	4			13	4		4	4					23		17			4		4			13		42		42	17	4	4		13	8	13	13	4	4				4	6801
6901		8									4	4	4		4					4			4									13	4		4		4			8		4															4		6901
6902							4					4	8	8			4		4	8			8								21	4	21			13		4		4	8		21		46	13	4	4		4		4	8	4				4	6902
7001												4				8						8						4	4														4		13	4	4					4	8		4					7001
7101														4																																													7101
7201				8			4				4		4							8		42										4	21			21							8		13	13	8		21	4		13					13			7201
7202							4					4																																				4							4				7202
7301			4				4					4																			8	4									4		8		25		8	4			4	8	8	8		4	21	4	4	7301
7302																					4	4																					4									8		4					7302
7303		4					4				4	8	4		4												4				8										29	25	4		38	25	4	4		8			8	4		8	4			7303
7304		4					4	8					8		8			4				4					4	4	8	4	17	4				4		4	4	17	50		13		42	29	25	8		4	17	21	46	4	4	8	42	21		7304
7305																																																											7305
7306		13					4	8		4		17	4	13	4		8	4		4	4	21						4	4		17	8	17	8		4		4	8	13	13		118		176	38	50	21	29	25	8	8	17		4	13	8		13	7306
7307												4																																	4					4			4						7307
7308		8		13		4	13	8	4		4	8	4	21	34	21	13		8	17		25	4		4	4	29	8			42		25	13		21	4	17		63	46		151		412	164	88	29	25	34	13	29	63	25	13	50	29	17	29	7308
7309		4		4			13	4			8	8	4	13	4			4	4	8		13	13		4						25		13			4		4		8	34		34		130	67	50	38	17	25	13	4	13	17	4	34	4		17	7309
7310		4		4			17						8	8	17	8						13									8		8			4		8		13	25		50		71	46	55	29	50	13	13		17	17	13	8	4	4	4	7310
7311						4	4				8	4			4	4											4	4			4		4					4		4	8		13	4	34	21	29	63	42	8	4	17	13	4		13	21	4		7311
7312							8				8			4		8						4					4	4			4					25	4						34		13	17	17	34	105	8			4	4			25		13	7312
7313				4		4	4				4	8	4		8							4						4			4		8			4				4	8		34		46	34	8	17	13	46	8	8		4		4			7313
7401							13							4				4					4								8							4		4	17		13	4	13	13	8	4			8	8	4	8	4	8	4			7401
7402				8		4	34			4			4					4	4	4		4					4				13		8	4		13		8			21		8		34		13	13		4	21	13	8	4	8		8			7402
7403				4			4				4				4							4									21		13	4				4	4	8	42		8		25	8	17	21	4		4	21	84	63	4	13		4	4	7403
7404				4		4	4				4	8	4								4		4											4					4	8	4	4	4	13	4	17	21	13	4	4	4	17		25	101	29	4	4	8	4		7404
7405		4									4											8					4		4		4			4							8		8	8	13	8			4		8	4	38	67	4		4	13		7405
7406																															4							4		8	4		13		76	25	8		4	4	4		17	8	4	4	21		4	7406
7407		4														4																						25			13		13		17		4	13	17		4	8	8		8	8	42	21	4	7407
7408												3										4											8					4			21		4			4	8	8				8	8	8	4	4	8	80	29	7408
7409															8					4		4											4								13				25	4	8		4		8		8	4	13		29	46	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
TRUCK DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-1

Sheet 2 of 4

Zone Of Destination

Zone Of Origin: ZONE NO	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	SUB TOTAL
6101																																										
6102	4																					4																				135
6201																																										12
6202																																										165
6301																																										4
6302																									4			4			4											61
6303					4					4					4										8		4	4	13	13												644
6304									4																																	82
6305																																										8
6401														4								4																				16
6501	8									13					4			4													4		17		4	4							210
6601			4																			4				4		4	4													248
6602						4																			4	8																152
6603					4				4																	4			4													157
6604						4									4									4				4								4							213
6605								4			4																															90
6606										4																4				4												57
6607				4																																						48
6608																													5													36
6609				4										4																			4									153
6610		4								4																																44
6611				4				4	4		8				8	4										8							4			4							325
6612										4																8																	136
6613															4											4																	12
6701														4																												87
6702																																										16
6703	8		13				4				4											4								4			8			8							180
6704																																										60
6705				4												4																										49
6706						8																																				12
6801			4			4				4					4									4		8			4									17				675
6901																															4											73
6902											4													4						4			4			4							255
7001				4							4																									4							77
7101																																										4
7201					8	13																		4					4	4		4				13	4					267
7202																																										16
7301	4		4									4														4																	150
7302																										8																	32
7303	4	4		4						4												4				8							4							4			241
7304	8		4		4			4				4						4				4		8		8	4			4	4	4	4	4									520
7305																																										
7306	4	4		8		4			4	8		4		21	8	4		4								17	4		4	13	4	4	13	4		4	4	4					888
7307																																										16
7308	50	13	13	38	4	4			21	13	13	13		17											4	13	4		13	4			17	4		21							1939
7309	29			13		4			21	17	4			4	13	13								8	8	8					4	4	25			8							846
7310	4	8		4					13	4	4		4	4												13			4	4		4											605
7311	8	4	4								8				4	8								8	4	8										4			4				410
7312	17	4	4		8			4							4									4				5			1	4		8		4		4				420
7313	8	4		13	13						13											4		13	4	8			4	4	21		4			4							423
7401		4	4	17		4	4			8	4				4										4	4			21		4					4					4		247
7402	17		4			4			8	17	4	4		8								17		4		13			4	4	13		4				13	4					421
7403		4		13				4	4	13		4		4	4									8	13	8					4					4								483
7404	8		4	13	4	4		4	13	4	4	4			4									4		4				4		4	4			4								438
7405		4	4						8	4	4	4													4			17		4						4								280
7406			4	17				4				4		4												13																		262
7407	25	4	8	17	4				4		4	4						4						4			4						4			4								307
7408	4			4	4				4		4				8													4							4	4								262
7409			4	21					8		38	4			4										4			4	13							8								290

External Stations

Zone Of Origin: ZONE NO	3	4	5	6	7	8	9	10	13	13	15	SUB-TOTAL	GRAND TOTAL	ZONE NO
6101											1	1	1	6101
6102	14	8	3	21		5	1	1	18	1	51	123	258	6102
6201				2			1		7			10	22	6201
6202				3							1	4	169	6202
6301											1	1	5	6301
6302				2				1				3	64	6302
6303	1								6		1	8	652	6303
6304													82	6304
6305													8	6305
6401													16	6401
6501		3		4	4	2		3	2		4	20	230	6501
6601		4		3					6		3	16	264	6601
6602	4	2							2		2	10	162	6602
6603		3		2		5				2	5	17	174	6603
6604		2		11				3	4	4	8	33	246	6604
6605											2	2	92	6605
6606				2					11		4	17	74	6606
6607		6		4	3	3			1		8	26	74	6607
6608				3						4	8	6	42	6608
6609				6					6		2	14	167	6609
6610		2		4				1	6	6	6	27	71	6610
6611	2	9		6	1			8	8	4	19	57	382	6611
6612						3			1		4	5	141	6612
6613				3					3		4	9	21	6613
6701				1		1		1	4		4	13	100	6701
6702		1			1			3	7		4	13	29	6702
6703		5		31	2	9	2	8	8	4	12	81	261	6703
6704				2				1	1		2	6	66	6704
6705	2	2		2				6	3		14	29	78	6705
6706		2				1		1	2	4	4	10	22	6706
6801	4	4	7	7	1	3		8	2		7	40	715	6801
6901				1				1	2	4	3	8	81	6901
6902		3				2			7		3	18	273	6902
7001		1			1				3			5	82	7001
7101											1	1	5	7101
7201		3		1					3			7	274	7201
7202				1		2		4	6			13	29	7202
7301	5	3		3				1	5		11	28	178	7301
7302		4		7							3	14	46	7302
7303		3		4		1		1	11		5	25	266	7303
7304		6		3		4		3	6		12	34	554	7304
7305														7305
7306	3	14		56	4	12		16	48	1	54	208	1096	7306
7307		3			1	2	1		17		4	28	44	7307
7308	2	11	2	30	6	16		20	55	4	46	193	2132	7308
7309		4		9		2	5		17		6	43	889	7309
7310	5	16		21	2	1	1	13	31		18	114	719	7310
7311	1	5		6	6	9		1	22	2	3	61	471	7311
7312				3				4	7		4	17	437	7312
7313	2	3		10		16		1	24		14	64	487	7313
7401	1	1		1					11		2	16	263	7401
7402	1	9		7	1	2		2	5	4	67	101	522	7402
7403		3		4	1			3	6		4	21	504	7403
7404		3						1	8		1	16	454	7404
7405		2		3					1		2	8	288	7405
7406		3		5	1			3			3	15	277	7406
7407				1		1			8	3	5	16	323	7407
7408				1				4			3	8	270	7408
7409					1			1	8		1	11	301	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
TRUCK DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-1

Sheet 3 of 4

Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410											8																8				8		4					4			8		8		42	8	8		8			17		4			17	34	13	4	7410
7411													4								4																									17		4		8	4			4		4				4	4	7411
7412						4														4							8											4			4				13	13	4			4	8			4	4	4					7412
7413																				4		8									4			4							4	4		17		29	17		17	8	21	13		13	13		4	4	4	4	7413
7414							4																4															4							13	4			8	4				4				4			7414
7501																														8	4					17									13									4							7501
7502																											4																																		7502
7503																						4									8			4									4		4			4											8	7503
7504																						4																				13	4		13	8	4	8				8	4	4	29	4			4	7504
7505							21				4										4																				4			8	8	17	4			4	4	21	13	4	8				4	7505
7506													4									13									8													13	25		4	4		17	4	4		4	4				21	7506
7507														4																	4			4				8						4	13	4	4			4									4		7507
7508																																																		4										7508
7509								4																									4				4	4					21	8		4					4	4						4	7509
7510											4	4			4					4	4										4					4					4			13	8	17		4		4	4		4							7510
7511																						8																							8		8														7511
7512																																																												7512
7513								4																																			4														4			7513
7601																																																												7601
7602																																													4							4									7602
7603																		4																																											7603
7701												4															4																8				4		4		13										7701
7702																																																												7702
7703												4			4																4		4								9		4		4	13				13		8		8						7703
7704							13						4					4																									4		8	8				4	4		8		4				4	7704
7801											11	8	4				6					8	8	4			4				17							8	8	17	9		17		8	4	13	4		17	4	4	8	8		4			4	7801
7901		4					4																																		4		4		8												4			7901
7902						4									4			4																		4							4				4		4			17		4				4	7902
7903							4																												4	4							4		13	8		4		8	29	4							8	7903
7904						4	8				4		4		4					4																8		4			9		8		13	4	4			13	4	4		4						7904
8001		4									13				4	4																				17							4		4			4		17		8								8001
8002																																											13		4	4				8			4							8002
8003				4							13											4					8				8		4			8					13				25	17					4	8								8003
8004												4																															4					4	4			4				4	4		8004
8101																																																	4								4		8101
8102												8			4							8									13		13	4		13							8		21	8	8	4		4				4	4				8	8102
8103																																									9		4		4	4					13									8103
8104																															17												4		4				4			4								8104
8105																																																												8105
8201																																																				4								8201
8202																																																												8202
Sub-Total		139	12	166	4	65	645	72	8	16	209	241	156	152	213	85	58	52	36	155	44	310	128	16	82	16	192	56	49	12	692	74	258	73	4	266	16	150	32	244	515		902	16	1925	834	597	420	420	423	252	427	478	438	276	261	308	257	285	Sub-Total
External Stations																																																													
3		11											1									1					1				1		1					4					7		4		4	2			1	2								3
4		6		2			1			1	3	5		3	7		2	7	2			16			1		2		1	4	6		3					1	1		9		17		6		13			7	2	5		1	1	2					4
5		2																													6														1	1															5
6		17				2					3	1	3	3	7			9		2	7	8	3		8		15		7	3	6						2		3	7	5	1		67	1	38	5	14	7	3	4	3	5	7	3	3	3	10		1	6
7		2					1				2						3			2							2				8									1				3		7			3									6	1		2	7
8																											6				8	2										9		7		9	6	6	4	2	9			1	3		4	1		3	8
9											2																11																																		9
10		2									5	2	1							3		7			1	1	3	2	6	10	7	3		1			6	4	3	1			10		32	4	7	3		3	3		1			2		7		10
13	3	19		3			6					3	3	4	13		3	3		2	2	10	3	1	6	12	16	2	4	2	6	1	2	2		6	5	10	4	1	11		49	5	46	15	17	21	8	26	1	15	3	6	6	2	1	5	1	13
14															4				1		6	3					8			1		2											3		3	1		3			1	8					1			14
15		49		3		1					6	6	5	5	9		6	31	2	1	3	10			2	1	7	7	5	2	6	3				3		9	3	5	9		40	4	55	9	19	8	2	17	4	94		2		4	3		3	15
Sub-Total	3	108		3		3	8			1	19	17	13	15	40		14	50	5	10	18	55	6	1	18	14	71	11	22	22	52	11	6	3		11	11	31	19	28	34		203	10	201	41	80	51	15	66	15	129	12	15	10	23	17	12	10	Sub-Total
Grand Total	3	247	12	174	4	68	653	72	8	17	228	258	169	167	253	85	72	102	41	165	62	365	134	17	100	30	263	67	71	34	744	85	264	76	4	277	27	181	51	272	549		1105	26	2126	875	677	471	435	489	267	556	490	453	286	284	325	269	295	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
TRUCK DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-1

Sheet 4 of 4

Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410	38	17	8	21		4						4			4											4		4			4			4		4						319
7411	13	46	13	13	4				4		4	4		4	4										4	4			8	4		4	8										198
7412		8	38		4						4	4	8	17																			4			8							173
7413	25	4	4	21		4				4	4			4	4			4								4		4			8	8	4			4						302
7414		8			17	4					4		4	8	4									4	4						4					17							127
7501	4			4	4			4	8	4										4		4			8					4	4												98
7502									4																																	8
7503											4					4		4																									48
7504		4			4	4		4	113	13	25	8		17	4						4			13		8	8		8				4			4							352
7505			4			4			25	71	8	17												4										4									265
7506			4	4	4	4		8	25		97	29		8	21				4			4		4									4	4			4						353
7507	4	4							8	34	13	34		4	8									13		13		4	8	8							4						212
7508			8	4																															4	4						24
7509	4	4	8	4	8				4		17		4	76	13		4	4					4						4				4			4							231
7510	4	4		4					4		13	8		8	50			4											13	4						13							215
7511				4							8							8																									44
7512														4				4																									8
7513		4		4	4											13	4	4										4	8	8					4		4	8						81
7601																								4																			4
7602																																										8
7603																							4	4																			12
7701																								4					4														53
7702											4																																4
7703					4	4		4	17	4		4						4						21	4	8	8		4	4								4					164
7704		4				4																				4				4			8				4						93
7801	4								4			13						4						13	4			126	4	4	4	4	4				4			4			389
7901									4		4													4			4		8		4						4						60
7902	8										4	4							4							126							4										203
7903		8							4	8		13			8											4	8	4	13	21						21	4						206
7904		4				4				4	4	4						8								8	4	4		25	4					4							175
8001				4		4						4						4								4	4			4									4				111
8002		4																								4							4										45
8003		13		4	8				4		8														8			4				8						4					173
8004	8			4	4					4																																	44
8101																																											8
8102	8		4	4	8									8	13			4											21	4					4		4	8						222
8103			4								4							4											8	4								17						74
8104																									4																			37
8105																																											
8201																										12																	16
8202																																											
Sub-Total	326	197	177	301	130	97	8	48	348	271	357	207	24	232	214	46	8	80	4	4	8	57	4	169	93	388	60	203	215	180	106	52	176	44	8	217	74	37		16		19418

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15			Sub-Total	Grand Total	Zone No
7410	2			7		3		4	4		4			24	343	7410
7411			1	2		4			2		5			14	212	7411
7412								1	1		1			3	176	7412
7413				7	1	3		1	8	2	3			25	327	7413
7414				4	3			1	3		3			14	141	7414
7501				4							3			7	105	7501
7502				1							2			3	11	7502
7503															48	7503
7504		2		1	1	2		1	3		3			17	369	7504
7505				1	1				2		1			7	272	7505
7506	1			1		3			6		1			14	367	7506
7507				2							1			3	215	7507
7508				1										1	25	7508
7509				1	3				7		2			17	248	7509
7510		1		1	1			1	1					7	222	7510
7511		6		1	5	4		1	2					25	69	7511
7512									2					2	10	7512
7513									2					2	83	7513
7601															4	7601
7602															8	7602
7603															12	7603
7701															53	7701
7702															4	7702
7703				1		1			4		6			12	176	7703
7704		4		4				1	2		11			22	115	7704
7801		4		20		4		3	26		20			77	466	7801
7901				1	2				6		4			14	74	7901
7902		1		3										4	207	7902
7903	1			3		3			2					7	213	7903
7904		1		17					1		1			20	195	7904
8001			1	2		1	2	1	18		7			32	143	8001
8002		2				1			3					6	51	8002
8003		3				7		2	7		7			26	199	8003
8004		1		3		6		4	1		6			21	65	8004
8101															8	8101
8102				56	1	3			16	1	27			104	326	8102
8103											1			1	75	8103
8104	1			4					1		3			9	46	8104
8105							3							3	3	8105
8201					3									3	19	8201
8202																8202
Sub-Total	49	178	14	463	60	148	16	145	549	41	577			2240	21658	Sub-Total

External Stations

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
3	2								2						1														2							1						48
5		4		1							1		2	1										3	3	2			2				2	3			1						157
5																																											10
5	4	3	1	8	3		2		3		3			5	4	6								1	6	27	6	5	2	36	3	1	6	7		63		4		1		500
7	4								2	1	2			1	2	7										1				2		3				3			1	2		66
9	4		4	7					3		6	2				9									1	1			1			1	8	5		3						135
9																															6								2			21
10	3	1		2	1					2	2			3		1								2		5					6			3	1	4				3		181
15	18	2	2	3	2	9			3		5	3	1	7	3	2		2	1					7	4	36	3		2	4	10	3	6	1	2	12	2	3				570
14				3																											2		2									52
15	1	2	1		2	2	5		1	1	1	1		5		2								2	4	34	6	1	2		6	2	2	3		26		2				578
Sub-Total	32	12	8	24	8	11	7		14	4	20	6	3	22	10	27		2	1					15	18	106	15	6	11	42	33	10	26	22	3	112	2	9	3	6		2318
Grand Total	358	209	185	325	138	108	15	48	362	275	377	213	27	254	224	73	8	82	5	4	8	57	4	184	111	494	75	209	226	222	139	62	202	66	11	329	76	46	3	22		21736

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15			Sub-Total	Grand Total	Zone No
3		2		2							1			5	53	3
5			1	5		1		1	14		14			36	193	4
5								1						1	11	5
5	2	5			1	2		1	9		26			46	546	6
7									2	1				3	69	7
9		1		1					5		3			10	145	8
9				1					1		1			3	24	9
10	1	2							8		8			19	200	10
15		14		5	2	4	1	8		2	15			55	625	13
14					1				1		1			3	55	14
15		14	1	26		3		9	17	1				71	649	15
Sub-Total	3	38	2	44	4	10	1	20	57	4	69			252	2570	Sub-Total
Grand Total	52	216	16	507	64	158	17	165	606	45	646			2492	24228	Grand Total

Zone Of Origin

GREAT FALLS URBAN TRANSPORTATION STUDY
TAXI DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-2

Sheet 1 of 4

Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	
6101																																																																6101
6102																																	1													2	1															6102
6201																																																															6201
6202																																														5																	6202
6301																																																															6301
6302																																														1																	6302
6303																																														15		1	1															6303
6304																																																															6304
6305																																																															6305
6401																																								1							1																6401
6501																																													1																	6501
6601															1					1																				1			2		5	1															6601
6602																			1	2											1									1			1		15													1	1		6602
6603																											1														1				2																6603
6604		1										1	1																											2	1			16		1	1													6604
6605																																													1																	6605
6606																																																															6606
6607																																																															6607
6608																																													3									1								6608
6609															2					1		1			1																		2		13	1	1								1	2					6609
6610																																													1			1													6610
6611															1																												1		9	1															6611
6612																																	1												3	1											1				6612
6613																																											1		2																6613
6701																																													1																	6701
6702																																													1																	6702
6703							1																																				2		13		1															6703
6704																																																1													6704
6705																																	1												1																	6705
6706																																																															6706
6801																											2				2									1	2		3		24		1	1													6801
6901							1																																						1																	6901
6902													2																																3		1														6902
7001																				1																														1			1							7001
7101																																													1																	7101
7201																																	1							1	1				2																7201
7202																																													2																	7202
7301																																													1																	7301
7302																																																															7302
7303												1	1							1							1				2									4			9		28	2	1	1					4			3		4			7303
7304												1			1											1					1									1			2		35	8	4	1					1	3	1	2			1		7304
7305																																																														7305
7306		2					1					1	1	2	1								1	1			3				1									4	2		1		39		5	2	5	1			3	2		2	1	1			7306
7307																																									1						1							1							7307
7308		1		3		1	12			2	1	4	14	2	12				2	15	2	11	2	2			6	1	1		21	3	2	2	1	2	2	1		39	38		38	1	290	12	10	22	27	5	4		35	40	11	18	28	18	3	7308
7309							1					1	1		1												1				1					1				1	2		1	1	15	1			4	1			2	2		2	4	2	1	7309
7310												1															2				1		1							3	4		3		15	1	1		5				1	1		1	3				7310
7311															1																					2						3		15		3		1	1			1				1	1			7311
7312																																											3		31	3	1	1		2			3	2		2					7312
7313																																											1		7			1					1	1				1			7313
7401																															1														3																	7401
7402																																																														7402
7403																				1																				1	5		2		44	1	3	1	3				2		3	1		2	1	7403
7404																1				1											2										2		2		28	3	2				1		4	5	1	1	3	1	1	7404
7405																				1																							1		14								1	2		1					7405
7406				1															1	1			1																		1				22	3	2	1	1				5			1			2	7406
7407															1																										1		1		25	1		1	1				2	5	1			1	2	7407
7408																															1									2	2				15	2	1	1					3		1	1	4	1		7408
7409													1																					1										6								3			1			1	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
TAXI DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-2

Sheet 2 of 4

Zone Of Destination

Zone Of Origin: ZONE NO	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	SUB-TOTAL
6101																																										
6102																																										4
6201																																										
6202														1																												6
6301																																										
6302																																										1
6303										1																																18
6304																																										
6305																																										
6401																																										2
6501																																										1
6601																																										11
6602																																										23
6603																																										4
6604																																										24
6605																																										1
6606																																										
6607																																										
6608																																										4
6609																																										25
6610																																										2
6611	1																																									13
6612																																										6
6613																																										3
6701																																										1
6702																																										1
6703																																										17
6704																																										1
6705																																										1
6706																																										
6801																																										36
6901																																				1						3
6902									1																																	7
7001					1																																					4
7101																																										1
7201			1																																							6
7202																																										2
7301																																										1
7302																																										
7303	2										1																															65
7304										2	1													1										1		1							69
7305																																										
7306	2	1	1		1					1	1																1						1										91
7307																																										3
7308	19	13	6	11	1				6	5	12	12		3	1	1						2		8	1	9	2	1	5	3	7	4	9	3	1	6		1				919
7309										1	1																				2	1										51
7310		1		1						1				1																												47
7311	1		1								1	1														1					1	1	1									37
7312	2	1										1																			2		2									56
7313																																										12
7401					1																																					5
7402																																										
7403	1	1	2						1	1				1	1																			1								79
7404	1	1	2	2		1				1	1					1								1		1						1	2									75
7405				1																																						21
7406	1										2																1						2										49
7407	3		1	1							1				1												1				1			1		1							53
7408		1		1						1					1																1		2										41
7409									1																				1				1										16

External Stations

Zone Of Origin: ZONE NO	3	4	5	6	7	8	9	10	13	14	15				SUB-TOTAL	GRAND TOTAL	ZONE NO.
6101																	6101
6102																4	6102
6201																	6201
6202																6	6202
6301																	6301
6302																1	6302
6303																18	6303
6304																	6304
6305																	6305
6401																2	6401
6501																1	6501
6601																11	6601
6602																23	6602
6603																4	6603
6604																24	6604
6605																1	6605
6606																	6606
6607																	6607
6608																4	6608
6609																25	6609
6610																2	6610
6611																13	6611
6612																6	6612
6613																3	6613
6701																1	6701
6702																1	6702
6703																17	6703
6704																1	6704
6705																1	6705
6706																	6706
6801																36	6801
6901																3	6901
6902																7	6902
7001																4	7001
7101																1	7101
7201																6	7201
7202	2															2	7202
7301																1	7301
7302																	7302
7303																65	7303
7304																69	7304
7305																	7305
7306																91	7306
7307																3	7307
7308																919	7308
7309																51	7309
7310																47	7310
7311																37	7311
7312																56	7312
7313																12	7313
7401																5	7401
7402																	7402
7403																79	7403
7404																75	7404
7405																21	7405
7406																49	7406
7407																53	7407
7408																41	7408
7409																16	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
TAXI DRIVER TRIPS
AVERAGE DAY 1961

TABLE D—2

Sheet 3 of 4

Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410																																				1				1			1		23	1	1							2			1	2	1		7410
7411															2																												2		10				1					1							7411
7412																															1														12					1						1						7412
7413				1																																					1		1		10	1							2	1							7413
7414													1																											1	1				1																7414
7501																																																					1							7501
7502																																																												7502
7503																							1																																							7503
7504																																											1		8									1	1						7504
7505							1																																				1		10										1		1				7505
7506																																								1	2				9	1	1			1			1	1		1		2			7506
7507																																											1		6	1										3	2		2		7507
7508																																																												7508
7509																							1								1														3		1										1			7509
7510																																													3								1							7510
7511																																																	1										7511
7512																																																												7512
7513																																																												7513
7601																																																												7601
7602																																																												7602
7603																																									1																					7603
7701																																													2																7701
7702																																																												7702
7703													1																																7	1	1		1												7703
7704																																																												7704
7801																						1																		1			2		8				1				1								7801
7901																																													3	1											1	1			7901
7902																																															1													7902
7903																																													4									1							7903
7904																																													3																7904
8001																																		1											7	1	1							1				1	1		8001
8002																																													7				2						1					8002
8003																															1												1	1	6	3			1			1	2		1	1				8003
8004				1			1																																						4				1								1			8004
8101																																																												8101
8102																																									1				3									1			1	1			8102
8103																																																								1			8103
8104																																									1																			8104
8105																																																												8105
8201																																																												8201
8202																																																												8202
Sub-Total		4		6		1	18			2	1	10	23	4	23	1			4	25	2	13	6	3	1	1	16	1	1		37	3	7	4	1	6	2	1		66	70		89	3	925	53	46	37	56	12	5		81	74	21	47	53	41	16		Sub-Total

External Stations

3																																																													3
4																																																													4
5																																																													5
6																																																													6
7																																																													7
8																																																													8
9																																																													9
10																																																													10
13																																																													13
14																																																													14
15																																																													15
Sub Total																																																													Sub-Total
Grand Total																																																													Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
TAXI DRIVER TRIPS
AVERAGE DAY 1961

TABLE D-2

Sheet 4 of 4

Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202		Total Internal Trips
7410																										1						1	1										37
7411		1										1																				1	1	1									21
7412	1							1																																			17
7413		1				1																														1	1						21
7414									1																																		5
7501																																		1									2
7502																																											
7503									1																																		2
7504			1																										1														13
7505																								1							1												16
7506			1																											1													22
7507				1																	1																						17
7508																																											
7509																																											7
7510																																1				1							6
7511																														1			1										3
7512																																											
7513																																											
7601																																											
7602																																											
7603																																											1
7701																																											2
7702																																											
7703									1																																		12
7704																										1																	1
7801																											1																15
7901		1																																									7
7902																																											1
7903									2																																		7
7904											1																1																5
8001												1												1										1									16
8002															1																												11
8003			1	2	1											1																											23
8004	1																																										9
8101														1																													1
8102	1														1																1												10
8103																																											1
8104																																											1
8105																																											
8201																																											
8202																																											
Sub Total	36	22	17	20	5	2		2	13	16	22	16		7	6	3					1	2		12	1	13	7	1	7	5	16	10	23	9	1	11	1	1					2230

External Stations

Zone No	3	5	6	7	8	9	10	13	14	15	Sub Total	Grand Total	Zone No
7410												37	7410
7411												21	7411
7412												17	7412
7413												21	7413
7414												5	7414
7501												2	7501
7502													7502
7503												2	7503
7504												13	7504
7505												16	7505
7506												22	7506
7507												17	7507
7508													7508
7509												7	7509
7510												6	7510
7511												3	7511
7512													7512
7513													7513
7601													7601
7602													7602
7603												1	7603
7701												2	7701
7702													7702
7703												12	7703
7704												1	7704
7801												15	7801
7901												7	7901
7902												1	7902
7903												7	7903
7904												5	7904
8001												16	8001
8002												11	8002
8003												23	8003
8004												9	8004
8101												1	8101
8102												10	8102
8103												1	8103
8104												1	8104
8105													8105
8201													8201
8202													8202
Sub Total												2230	Sub Total

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15	Sub Total	Grand Total	Zone No
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
13														13
14														14
15														15
Sub Total														Sub Total
Grand Total	36	22	17	20	5	2		2	13	16	22	16		7	6	3					1	2		12	1	13	7	1	7	5	16	10	23	9	1	11	1	1					2230	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
SUMMARY OF AUTO, TRUCK & TAXI TRIPS
AVERAGE DAY 1961

TABLE E – 1

Sheet 1 of 4

Zone Of Destination

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6704	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409
6101																																																														
6102		24		23			7				4	24	26	4	13		9		9			22	4		15		21					22	16	25		4				7	9		8		53	14	18		24	13			18		9			9		
6201						4	4	18						9		9										9			9		9							14			9				9			4												
6202		21		46			31	9		9		21	4	31	25	27	18			26		7	8		17	4	4		4					5		13		14	34	9	46		18		110	15	8			8	9	4	18	4	6			33	15	
6301						7		9																	4											6									32		9													
6302			4		14		33					4	4				7														8									17	7			9	13	7				4			15	8		4		8		
6303		15	4	34	4	36	403	286	36	7	61	38	44	27	51		37	9	9	20		36	22	8	47	5	51	11	27		109		40	5		7	9	36	3	33	42		78	9	464	50	53	36	35	34	28	59	75	50	27	20	58	34		
6304			18	18	9		317	36	9			18	25		18	4	13			9		8	4		13		8	8			44		8			8				9	4		8		44							16	9	9			7			
6305							27	9					9		8		18			9		6					16																		4		9						8	9		9				
6401							7																4		7						4									4							27									15				
6501		4					35				4	61	34	7			9		13	16		30	13				8		17	9	141	18	25	20		4				33	39		6		37	8		33	67	9			53	30	32		22	18	12	
6601		18		26		4	45	13	32		65	65	39	75	98	46	55		13	53	14	8	22			21	22		11		39	24	48	5		25	4			22	16	18	33	4	260	52	36	14	18	35		45	18	74		13		17	15	
6602		29		9		4	49	20	9		34	65	79	63	38	31	7	4	1	36		11		9	9		39				54	46	13	25		17			13	36	33	9	1		131	80	20	16	9	34	11	4	13	16		9	9	10	1	
6603		17	9	18			20	4			7	40	57	43	49	9	36		9	29		14				18	18			9	4	8	51	18		18					7		11	9	78	39		9		7	4		7				9	18		
6604		8		27			43	13				109	48	61	21	34	31		13	96		31	31	9	18	25	25	5	4		4	4	48	4	8	43				30	20	9	22		135	13	24	9	50	13		4	51	38	15	15	27	14	8	
6605			9	18			18	9				41	53	26	24	7	9			26			13	18	18								36	36							8			12		5	8	13		13						4					
6606				27			43	4				69	7	40	30	18			27	82			49	18			9				18		40							21	7		12		43	30							23			7				
6607							9			4	4		4								5				27						4		8							21			11		4			7				4	13						
6608		9						9			13	4			8		18			9		28	9								4		22			13				8	16				47							4	1				7		
6609				21			20		9		7	59	53	20	85	13	64		18	101		46	27		1	7	8			9	13	16	40	27		4				36	17		57		219	39	1	31		43			29	31	35	28	8	52	31	
6610											4	14	9					8				8	7				4						7			9									34	8	4	1	9	7	4			7					6	
6611		18		7			20	4	9		26		15	29	36	8			30	36	9	18	4	20	7		13			9	11	18	43	51		41	6	8		29	25		36		77	14	21	11	18	15	7	13	23	7	15			4	11	
6612		4		4			27			4	20	26	8		31	4	59		9	9	7	18	17			5	7				4		28			8					16		30		85	43				4	4	7	6			19	16	9	8	
6613							4					7				9	18					18										7									14		1		27	23						7		7		9				
6701		14		22			43						9		13		18	21		4		7			21		40				22									36	16		9		109	9	14		4	27										
6702				4			18					21		7	18	9				7											8							7								5					8				7					
6703		30					78	9		7	4	9	14	13	22			4		18	7		16		36		8				73								4	24	16		6		74		9	9	18		4	8			15		9		8	
6704							11								3																20		7	8						30			8		23		7	12	4	12		8		8						
6705		4	9				27				17	7									9										9			7							9		6		13				9	6										
6706				9						9				9			9			9																	9			8	39			18	74		18	67	181	9			15		17		35	163	33	
6801			9	11	8	8	134	54	4		140	34	43	4	18	4	4	4	4			23	4		22	8	27	18			665	7	26			13		4		26	41		73		321	31	23	12	16	40	8	30	78	36	12	35	59	61	12	
6901		17					1				27	29	40		4					11		7	4	7							7	62	18			4		4		8	4		11		35	10				9			23	8				13		
6902		25		9			47	9			14	61	19	42	64	46	22		13	35		46	33					7			21	11	91	29		20	9	18		8	15		30	18	276	97	5	4	7	50		18	40	20	17	18	7	11	17	
7001		41		9			9				7	13	18	18		31	9			28		57	9	7				4	4				14	91		34					25		4		75	60	13	18	10	9		22	27		4	9	9	9		
7101														4	9																				7	25									1									9					
7201				8			18				4	7	13	18	36		9		9	8	7	49									17	4	30	18	25	125	27			37	10		33	8	217	42	42		21	13		20	7	18	7	16	13	9	8	
7202							22					4								8																36				24	7				51				11				25	8	8	4	9	26	16	
7301			13	16			36			6		4	9			9						4									8	4	16										8	7	62	8	8	13	13	9	4	14	16	26		4	21	4	12	
7302				18			9								9					4		4											8						41	8	17		71		21				18					8	17	4		9	8	
7303		4				17	20				40	26	32	7	12			20		28		31	9		9		11	36		18	19	17				27	24	7		74	128	8	77	9	330	137	30	44	89	35	23	7	109	34	47	49	30	51	32	
7304		11	9	46		7	57	17			39	24	24	9	31			4	16			11	15	16	16	1	19	7	8	39	36	4	7	25		22	7	13	29	126	154		56	56	514	128	75	75	59	44	37	21	164	75	47	41	131	98	43	
7305												27	9		9																								8					8											9			
7306		15		16	7		81	21		4	6	27	21	15	5		32	4		54	4	27	33	1		9	3	4	10	7	32	15	14	17		4		11	34	69	66		200		367	84	108	70	94	77	8	36	71	53	25	47	61	45	38	
7307												4															9			9		18			17				8	58				36	22	1		35		4		24	21	34	24	18	17	39	
7308		36	18	85	23	13	385	50	10	2	14	236	134	65	168	69	54	8	54	219	22	75	75	38	82	12	90	16	20	60	348	46	251	86	1	223	41	55	50	358	559		409	15	1727	555	264	223	338	148	39	42	437	558	306	193	366	363	250	
7309		11		11		7	46	4		26	15	62	95	22	35		8	4	4	40	13	20	29	25	13		1			9	49	7	82	34		41		10		107	158	9	49	1	401	179	109	80	117	66	13	19	114	83	118	74	93	57	66	
7310		11		4			63					42	24	8	42	8						13			16		15				27		8	5		47		8		32	101	6	74		232	54	74	36	87	46	21		83	76	41	16	100	30	53	
7311			9			4	22	18			28	34	16		22	4		7		27		7					4	11	9	67	11		13	7		2		4		36	107	9	61	4	173	72	40	184	151	9	11	17	31	11	17	20	31	22	15	
7312		14					53				87	18	9	4	25	8	7				9	22					13	4	9	172	16		4	5		33	11	7	16	83	66		84	35	384	103	34	136	226	116		27	42	48	15	20	58	26	13	
7313				13		4	33				4	26	33	16	8			9		34		26	9		36			4		9	49		64	7		18				18	68		61	8	179	34	35	27	117	72	17	15	31	21	6	11	18	1	22	
7401				9			36							4			9	4					4								16								10	19	37		13	4	55	13	15	4		9	8	22	4	8	12	8	4	9	9	
7402				8		4	50	18		4		43	4					4	4	4		4	7	7			11	4			30		22	13		13			15	7	21		34		68	16	13	13	22	20	41	19	23	13	42		24	9	8	
7403				11		15	110	9	8		51	18	9	24	36	9	13			26		11					8			21	70	16	47	4		7	25	11	12	113	151		52	38	461	99	62	48	51	30	4	69	308	204	78	81	82	89	100	
7404	8	7		4		12	38	9	9		30	60	20	25	43	5		13	7	27	11		4	7		7	8	18		18	44		38	4			14	31	8	28	56		48	21	550	88	77	26	46	12	18	20	167	235	125	45	66	68	25	
7405		13		8		7	27			13	30				13					31		16			6		15		4	17	27		17	13	8	7	8		9	36	60		30	42	349	107	52	17	13	4	8	48	62	116	143	20	44	45	71	
7406				1			16					9	9		9		27		1	10			19								21	4	19			25		4		48	43		36		231	53	35	18	40	14	4		82	56	19	13	53	35	20	
7407		4					52	7			20		9	9	10	13	9		9	8			16				5			62	65		14	12				25		17	97	9	50	18	343	82	104	32	44	9	11	30	94	73	56	24	86	115	47	
7408				9		8	36				14	26	18	18	40					9			9							130	50	11	17	18		16	18	4	9	57	102	8	33	9	365	40	17	18	9		9	8	114	69	64	31	151	116	111	
7409				8			6				12	15	1		8		6			48	6		8				12			24	8		22	1			15	8	6	48	38		30	39	271	39	64	15	13	38		8	56	68	70	45	41	81	61	

GREAT FALLS URBAN TRANSPORTATION STUDY
SUMMARY OF AUTO, TRUCK & TAXI TRIPS
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Zone Of Destination

ZONE NO	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7509	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	SUB-TOTAL
6101																																										8
6102	4									8				6								4								8			22									501
6201				9																														9								124
6202	16			9		18								15	8	18										16			7		9				7							794
6301																																					8					75
6302			8	9							15	8												3	8			4	4	16	8											249
6303	27	34			44	50			31	36	24	17		25	13	9			18					8	17	142	31	4	13	28			18	18		16						3360
6304		9							4																									9								716
6305	9	18			18																					19	9					8			9							230
6401				6						9		9		8								4							12													109
6501	15	16	18						22	21	12	20		24	4			4									6		6	20	8	8	37		4	4				9		1124
6601	9	9	12	52		23			16		8	6		17					9		16	4			14	25	9	4	19	8	9	8	9	14								1881
6602						11		7		8				15		7									18	38			17			8	18	36		16							1339
6603	25	18	17		20				11			8												18		4			4													827
6604	9	7	15			13		8			18	20		6	4	18						7		4		40		4	8	6	9			7	9	12						1478
6605			6					4			4																															438
6606		9	9							4		6									9					4		7	4	12	8		18			9						731
6607	8			4																										6												142
6608	9																									18			13			5	9									288
6609	9		8	21		9			15	6	6	9		12			7		9							14		9	7		9	8	22									1506
6610		4				7			7	4	6	14																				9	7									205
6611	23	14	6	4				11	4	13	14	24	7	15	8	10			9					13	2	22	6		7				11			9				9		1055
6612									9	4																15	18				9					7		7				617
6613		9						8							4	9										4					9												192
6701		9								9		9				16										23					5	5	9			14				9		555
6702											8																		3						9							142
6703	8		21	9			4				10			14	15			9				4		7		27			8	4	20		24			17						754
6704					9				15	7																8							7									212
6705		7		13					14																		4								9							170
6706	123	18	6	9	8	8								32	8														31	15		9	35									1034
6801	30		12			13			9	12	8	30			13	7			9					16		46	18	8	12	16	16	25	22		9		8	17				2566
6901				7					8						8											14					13					1							415
6902	9	9	6		17			1	7	18	12			15		9								26	7	39	18			4	7	16	11	27		4							1607
7001	18		21	4	1				8		21	9										7		7		7					9	7	9	25		1							794
7101																																										55
7201		7	15	18	8	22			8	8	15	8		15	15	27								4		9		9	8	8	27	13	27	46		21	10					1297
7202	18	7	8						8		7			8	14														23	8			16									376
7301	11		12		9				23		6	4		8		7										12			14	8												470
7302	9		8	7					17	8	8	8		8										8		8		8														372
7303	40	46		4	7	9		17	50	53	41	40	8	23	27	7		9		7		4		3		101	32		16		15	31	4	18		29		8		33		2445
7304	57	58	4	17	12	41		12	57	19	56	32		28		17	8	21				4		5		119	12	8	21	8	31	20	59	44		45	8			8		3328
7305														31	8	8														20	7											144
7306	104	52	15	43	1	4		3	82	43	74	51		57	8	4	7	4		7				9		46	19		21	31	33	4	70	12		33	4	4				2905
7307	44	9			30	8			8		29	31		8										18		30		8	15	15	8	7	7			8							682
7308	350	221	251	149	81	46		33	377	278	311	191	24	275	117	143		41	8		7	2		136	5	495	61	73	215	178	182	37	451	122	9	137	15	1		15		15421
7309	104	41	58	44	8	4		17	103	73	48	47		72	55	69			9					61	8	93	21		62	14	31	47	88	24		23	9					3869
7310	20	47	30	29	31	7		9	28	30	19	42	4	44	6			6						7		35	10		18	26	50	4	49	22		25						2101
7311	65	35	30	18	61	8			26	17	26	10		20	19	17		8	9		7	7		17	4	77			14	14	25	17	25	9		20		7				1959
7312	72	84	12	35	30	10		4		31	17	1		23	13	9		23	9		7			4		178		8	15	7	56	22	89	52	9	13		4		9		2919
7313	76	39	32	53	31	8		8	28	58	36	38	12	36	32	15		8	8			4		21	13	94	8		56	31	64	15	85	18		13	9					2113
7401	40	4	4	17	1	4	4		28	15	18				12										4	4			39		13					7				4		560
7402	17	36	25			19		25	8	17	10	12		8								17		12		35		7	24	13	37		20			12	21	4				1046
7403	77	40	31	21	47	17		54	28	48	37	26		41	13	25								28	13	134	59			14	27	13	24	50		41						3599
7404	43	8	38	15	12	47	8	72	62	69	61	4	8	14	19	1		15						18		127	23		28	34	44	8	86	9		25	3	3				3164
7405	40	37	16	16	58	27		92	65	29	62	20	8	29	15	21		8						8	11	100	24	25	31	4	26		9			18				15		2367
7406	19	7	12	58				12	58	57	17	19	8	36	30	26								14		87	17	14	28	14	8		11			1						1529
7407	104	20	18	58	30			25	38	33	44	21	8	8	32	23		4	18					13		73	5	16	28		37	8	26	45	18	21	30	14		18		2508
7408	92	48	24	45	13	18		42	70	27	80	24	8	22	53	18		8						24		111	8	37	3	37	16	29	34	18	20	22				9		2784
7409	9	25	19	29	21	8		25	27	15	62	12	8	37	31	25			8					16	8	100	14	19	28	23	26	5	31			23	8			15		1922

Zone Of Origin

External Stations

ZONE NO	3	4	5	6	7	8	9	10	13	14	15				SUB-TOTAL	GRAND TOTAL	ZONE NO
6101		3		1				1			1				6	14	6101
6102	15	12	3	32	3	8	1	2	36	4	106				222	723	6102
6201	1		1	2	2		1		12		2				21	145	6201
6202		3		5	7			1	9	3	4				32	826	6202
6301									2		3				5	80	6301
6302				2			1								3	252	6302
6303	1	5	1	1		3		4	29		15				59	3419	6303
6304									2		2				4	720	6304
6305									3		2				5	235	6305
6401									1						1	110	6401
6501		4	2	27	7	5		10	17		20				92	1216	6501
6601		11		19		3		14	30	2	20				99	1980	6601
6602	7	10	2	7		2		17	33		25				105	1444	6602
6603		7		14		7		8	14	4	38				88	915	6603
6604	3	13	1	30		4		21	41	8	48				169	1647	6604
6605				4							11				15	453	6605
6606	1	7		7		2		6	19	3	29				74	805	6606
6607		6		7	3	3		9	1		10				35	177	6607
6608		1		7				8	13	2	8				33	321	6608
6609	1	7		12		3		11	39	11	24				108	1614	6609
6610		3		4				4	18	7	11				47	252	6610
6611	2	16		15	4	2		10	22	8	28				107	1162	6611
6612				5		3		8	12		5				26	643	6612
6613				5		4		8	13		4				29	221	6613
6701		10	3	13	1	5	2	7	42		28				111	666	6701
6702		4	1		1			3	12		4				25	167	6702
6703		7		39	2	12	2	18	20	4	19				118	872	6703
6704		1		3				1	4		4				13	225	6704
6705	2	4		7	1			8	6		18				39	209	6705
6706		7		4		1		7	3	7	6				35	1069	6706
6801	3	31	8	14	8	9		35	39	1	19				167	2733	6801
6901		2		6		3		5	17	7	9				49	464	6901
6902		6		7		5		8	26	5	17				74	1681	6902
7001		2		1	1				10	1	2				17	811	7001
7101								1	1		4				6	61	7101
7201		4		5			1	2	18	2	9				41	1338	7201
7202		1	1	12	1	2	9	8	44		8				84	460	7202
7301	7	7		6		1		5	7		16				49	519	7301
7302		11		17		2		8	21		12				68	440	7302
7303		24	5	53		13	2	29	87		42				255	2700	7303
7304	3	30	3	35	1	9	1	31	58	4	45				220	3548	7304
7305																144	7305
7306	9	36		113	8	21	1	50	105	3	112				458	3363	7306
7307		15			1	7	1	1	18		9				52	734	7307
7308	10	130	13	220	32	67	4	93	347	17	341				1274	16695	7308
7309	2	39	1	45	11	19	7	18	72	7	40				261	4130	7309
7310	7	28		68	3	21	3	37	61		49				277	2378	7310
7311	1	16	2	22	7	25		34	59	5	42				219	2178	7311
7312		3		22	1	10	1	29	69	5	25				165	3084	7312
7313	3	21		46	3	23	6	17	110		40				269	2382	7313
7401	1	5		8		5		2	18		5				40	600	7401
7402	1	10	3	11	1	2	1	3	10	7	78				127	1173	7402
7403		43	2	43	7	8		27	62	2	45				239	3838	7403
7404		17	4	17	1	3		19	57	3	26				147	3311	7404
7405		10		18		3		9	19	1	18				78	2445	7405
7406		19	1	29	3	10		12	19	1	21				115	1644	7406
7407		14		27	1	19	4	21	59	2	39				186	2694	7407
7408		7	1	16	2	8		19	28		13				94	2878	7408
7409	1	5		14	7	5		10	52	2	14				110	2032	7409

GREAT FALLS URBAN TRANSPORTATION STUDY
SUMMARY OF AUTO, TRUCK & TAXI TRIPS
AVERAGE DAY 1961

TABLE E — 1

Sheet 3 of 4

Zone Of Destinations

Zone Of Origin	6101	6102	6201	6202	6301	6302	6303	6304	6305	6401	6501	6601	6602	6603	6604	6605	6606	6607	6608	6609	6610	6611	6612	6613	6701	6702	6703	6704	6705	6706	6801	6901	6902	7001	7101	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409	Zone Of Origin
7410				24			27		9		15	18							9	18		14					6			141	24		13	16		1	18	11	9	35	56		87	44	319	80	31	66	70	64	38	17	58	54	46	44	92	94	19	7410
7411							34	18	18		14	7	13	18	9		8				4	16	6		9				4	26	9		7			7	7			31	40		29	9	219	54	40	38	71	39		27	62	1	37	7	59	30	13	7411
7412						12	15				18	8		17	21					12		6					16		4	9	16		6	23		18		10	8		37		14		255	63	40	31	15	26	8	21	29	28	4	5	9	40	15	7412
7413			9	10		9						39								13		8					18		9		4	7		11		27		7	17	4	14		57		115	38	7	61	34	83	13		15	14	21	44	42	46	19	7413
7414							29					9	1	7	7		1					8	4		9								6	5			6	13		1	19		7	15	100	18	16	53	30	13			39	30	50		18	13	15	7414
7501				18			50	9				25	7							18	7									8	13					17				9	23			7	81				10	8			26	63	16			26	8	7501
7502																											4																											7						7502
7503		7							9		8		7		6							11	1								17			8						8	8		4		16		8	9				6	50	59	92	8	24	60	33	7503
7504							34				20	9								15	7	4	9	8				13				8	7	4		6	17	21	25	57	66	8	60	17	412	68	25	39		23	28	22	83	54	111	37	8	42	37	7504
7505		8					45				11		23		7						12	13			9			7			8		25			18			8	40			35		284	81	17	17	39	51	4	28	62	43	51	63	36	8	12	7505
7506						9	33				12	8	4							18	6	19					6				16		8	35		8	8		8	57	47		46	28	347	40	5	13	9	43	10	10	31	52	53	15	45	61	45	7506
7507				9		8	35				20			13	12		8			9	12	30			9			8			36			13				8	8	40	37		48	31	160	45	41	9		32			20	8	16	18	10	13	10	7507
7508							7																																		8								19				17	8		9	9	23	7508
7509		12		12			32	4			24	18								15		21	1				3			23	10		19			23	20	10		27	18	31	45	8	335	51	13	28	17	44	6	4	48	29	28	46	1	44	39	7509
7510							9				4	4			4					4	4						22			6	13					12	23			31		8	33		134	50		27	9	35	22	14	31	6	30	24	23	35	27	7510
7511		7		18			18						7		7					16		8		9	16						9		9			8				26	8				57	17	25	9	1	17			17	25	23	9	9	43	15	7511
7512																				7																							7		16															7512
7513				9				4															9										9			8							4		16					16					7	8		4			7513
7601							18					9								9		9																13		16							9		9	9						8		18		8	7601
7602																																											7		4	7					4									7602
7603												7						4				9																			1				7			7	7												7603
7701												4			7												4							4						4	4		8		2		4	7		4		13									7701
7702																																																												7702
7703						18	9				9	4	1		13							13					7				12		4						8	8	13		12	8	181	49	8		1	30		15	30	25	8	15	18	13	8	7703
7704							13					14	18		8			8				7											8										11		16	9				13	4		8		19				4	7704
7801				16			128		26			22	34		32		13		12	33		23	26	4	25		47	6		9	41	17	39	16		18	6	23	8	144	125		43	37	464	126	37	69	184	95	4	11	145	133	96	110	92	96	98	7801
7901		4					40				6	9			17							6	9								18		18	8						20	12		16	8	76	13			8	8			50	23	16	7	5	9	14	7901
7902						4						9			4			8													8					8					8		19	22	60	7	13		4			12		6	17	14	16	26	12	7902
7903				9		8	4			12	6	9	3		18		18		6			6				6				31					4	8	15	14		8	21	8	17	15	249	85	14	33	23	47	47	22	8	28	32	8	15	6	29	7903
7904		8				19	23				16	8	7		25		3	6		4		6								23	21					8	6	10			16	6	32	8	210	19	37		15	27	4	18	14	26	8	6	8	40	23	7904
8001		13		12			27				13	18	7		4	4	7			18	9	7					23				7		7	8		44				7	9		42	9	199	38	37	28	79	48	9	25	15	45	17	9	32	45	27	8001
8002									9		7										9				4		9				16	7	16	4						29	7		13	7	40	46	17	9	20	24				24	7	1	13	32	18	8002
8003		22		4			9	9			47	9							9	27		11			9		17	18		35	18	18	11			17	7				62		68	10	418	98	33	18	54	49	4	28	34	69	9	10	19	33	34	8003
8004			9	1			10					38	18		6		9			9					5				6				36	34		64	4			8	25		10		45	24	8	28	23	53			52	9			46	39	15	8004
8101				7					18																						6		5												19				4	8							9	20		8101
8102				9		7						8	9		10							17	7		16		17				13		13	4		21	9			29	40		51	8	90	40	17	20	33	13		12	20	36	12	7	24	10	22	8102
8103					6										9					3											8										6		4		49	13	8					13	8		8		24	1	8	8103
8104																							7								17										8		4		4			16	4			4		8		16				8104
8105																																																	9										8105
8201											17				8							9			8						9					8	9			25	9				17	7			9	9	4		7		15		18	9	15	8201
8202																																																												8202
Sub-Total	8	505	129	775	71	254	3395	712	224	107	1119	1864	1331	831	1488	438	715	145	317	1503	187	1043	616	211	570	144	758	169	169	1008	2606	427	1604	785	55	1317	390	459	369	2405	3348	146	2833	672	15328	3826	2075	2010	2913	2092	564	1017	3580	3205	2391	1492	2553	2751	1909	Sub-Total

External Stations

	3	4	5	6	7	8	9	10	13	14	15	Sub-Total	Grand Total
6101				2					7		6	15	23
6102	11	10	2	48	2	6		2	31	2	86	200	705
6201			3		2				3		2	12	141
6202		7		1	2				23	3	9	42	817
6301		1				3		2		8	1	7	71
6302		3		2					1	2	2	8	262
6303		10		4	1	3		1	27		2	48	3443
6304		1		2								3	715
6305		5		1			2		11	2		21	245
6401		1										1	108
6501		4	2	29	4	5	3	15	2	3	39	106	1225
6601	1	14		8				8	46	2	23	103	1967
6602	4	3	1	16	1	1	1	20	44	5	20	115	1446
6603	2	4		14		2		3	9	3	8	45	876
6604	2	17		19	5	5		15	53	8	33	157	1645
6605		2		4		2				2	8	18	456
6606		5		3	1	1			13	1	22	55	770
6607	4	7		11				3	4		33	60	205
6608		2						3	8	4	5	22	339
6609	2	5		13	2			12	25	1	19	79	1582
6610				10				6	7	8	9	40	227
6611	1	23		16	1			9	24	5	22	103	1146
6612		1		7				2	7		5	22	638
6613		1			2			2	13		3	23	234
6701		1		18				16	58		19	116	686
6702			2	1		1		1	14	2	7	28	172
6703	1	3		27	2	9		6	37	11	12	121	879
6704	2	2						2	3		3	18	217
6705	1	3		3				2	20		12	44	213
6706		28		22		14		11	13	4	9	80	1088
6801	4	23	8	17	2	11		23	34	1	27	150	2606
6901				3				6	15	13	6	43	427
6902	1	4		4		2		9	27	3	5	55	1604
7001						3		3	14	4	5	26	785
7101		2							4			6	55
7201		3		3				4	7	1	17	57	1374
7202		4		4				12	49		22	108	498
7301	7			8				7	18	2	12	62	521
7302				15				8	30	1	8	72	441
7303				37				19	86	1	39	242	2647
7304	1	17	1	16				26	71	5	25	191	3539
7305									2			2	148
7306	11	38		132	8	18		46	102	5	93	454	3287
7307			1	7		1		3	13		23	48	720
7308	19	136	9	270	17	97	6	139	367	27	362	449	16778
7309	2	28	1	33	8	27	3	18	79	6	36	241	4067
7310	5	29		43	4	21		19	59		37	217	2292
7311	4	10	3	20	3	17		28	55	7	37	184	2194
7312	2	5	2	42	3	21	1	27	72	1	16	174	3087
7313	3	20	1	26	1	33	4	26	99	3	33	265	2357
7401	1	2		12		4		3	8	1	5	36	600
7402	2	7	1	10	1	5		2	17	9	108	160	1177
7403	2	17	3	29	4	11		6	59		45	189	2769
7404		20	4	27	3	5		3	42	3	33	149	3354
7405		14		13	2	1		2	42	1	18	93	2484
7406		13	1	32	9	1		6	20	1	33	125	1617
7407		20	3	42	4	11		10	41	5	50	178	2731
7408	2	5	3	16	7	5		20	43		10	119	2870
7409		5	3	15	3	1		8	45	2	14	112	2021
Sub-Total	3	1	5	270	3	1	1	8	45	1	15	112	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
SUMMARY OF AUTO, TRUCK & TAXI TRIPS
AVERAGE DAY 1961

TABLE E – 1

Sheet 4 of 4

Zone Of Destination

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
7410	100	70	25	107	24	4			16		18	4		18	22		7	7			7			17		96	16	12	31	15	46	36	149	46	14	30	9			18		2651
7411	91	182	13	39	4	18			4	9	27	5	9	56	35	35					7			15	13	74	18		30	19	9	5	49	43	24	16							1892
7412	9	8	38	9	35	8		25	8	15	25	27	23	56	21	71								8	6	24	15		21	15	8		12	8		20	6			8			1383
7413	85	49	21	66		14		9		4	29	32		19	20	42		4								75	7	12	29		43	34	70	52	26	13	10			9			1589
7414	16	17	54	26	17	21		17	35	15	28	16	4	90	27	16		31						4	4	20	15		24	59	22		24	14	9	32	8		9				1232
7501	4	9	8	4	12			59	33	12	17	37		23	14	8			13	4		4		18	8	82			78	19	4			1		8						928
7502									4																																	15
7503		17	16			65			125	122	29	15				37		4			8			42		30		8	15	15				9									1009
7504	22	13	9		30	21		80	121	55	86	33	8	32	28	25	13		8		12			13	20	52	25	33	34		17	26	28	7	8	40							2314
7505			28	7	36	4		130	59	96	49	79		16	37	9		17	17		8			39	8	171	33	17	8	30	16	17	8	25		22				8			2050
7506	33	15	33	4	12	12		39	90	34	221	60	8	63	60	63	8	21	15		4		4	30		76	8		29	24	6	9	26	12	6	21	4						2198
7507	4	4	8	29	17	46		15	65	109	28	65		49	39	30		39			1			43		107	8	4	31	16		12	15	21		15	4			12			1609
7508			31	4				8	8	8	14			8	8	9																		4		4								208
7509	12	50	23	10	100	40			35	24	56	31	12	145	65	85	12	12	8			18		8		61	8	8	12		14	8	19	23		57				15			2086
7510	13	44	21	19	15	22			12	30	44	39	8	23	73	24		50						28	7	45	35		33	11	15	22	7			34				8			1328
7511	16	35	118	19	16			17	17	17	47	33	24	123	15			16						34		40	14	18	60	38	42		36	58	9	25	17						1340
7512									15		8			12				4											7														76
7513	18	4		4	4			10	8	17	9	23		23	77	13	4	4						14		40	17	58	93	116	16		16	13		4	16						716
7601	9								8	17	15													12				8															204
7602																																										22
7603	7	7						8	8	8						9						4		4									22										119
7701														14										11					4							6							103
7702											4																				7												11
7703	17	15	8	9	19	22		30	18	54	21	58		15	8	25		4				7		51	21	182	33	7	4	28	9	9	7	8		8		4		7			1248
7704		13	6			4			20	8														17		31			31	4			15			4							307
7801	102	54	27	66	39	77		37	55	162	90	95		60	49	20		67						198	32		22	515	139	227	31	4	118	36	79	48	24			20			5234
7901	16	10	15	7	8				4	48	20	16		8	28	12		8						29		46	4	15	23	8	22		34			4							805
7902	23			8	8			8	17	15	4	4		8	8	8		31	12					7		490	15	54	8		12	9	11	15									1044
7903	22	17	15	23	31	78			54	16	29	28		14	22	35	8	62	8					8	31	146	32	12	81	36			15	21	8	43	10			8			1803
7904	6	19	8		58	19		21		22	28	4		8		47		77						32		224	5	4	31	40	11		8	8		10				17			1415
8001	59	9	15	22	18	4			8	9		14		14	15	40		11					7	1		24	19	20		11			33	76	9	15	7	4					1438
8002	35	13		9		8		8	15			22		8	22									9		33		9			16		44	9						9			662
8003	112	62	1	75	69				29	15	16	6		45		45		22			20				22	130	9	11	14	15	48	55	145	77	18	62	20			39			2519
8004	31	59		92	28				7	36		8		23		8		22								37	15	8	35	8	93	18	68			16							1257
8101	9	16		32		9			8		6			1		10										59					9	9	35				8						314
8102	35	16	18	21	20				57	24	21	24		51	32	24		23				6				50			44	25	10		39	13	6	19	35						1257
8103	9		10	18							4							12						8		18			14	4			22			29	17						337
8104																								4																			89
8105																																										9
8201	9		8	9						8		6		15	8									7		22			8	8			7			9							337
8202																																										131337
Sub Total	2692	1888	1404	1570	1228	955	15	1015	2342	2096	2243	1614	201	2093	1337	1315	74	716	204	18	113	107	11	1250	301	5083	805	1105	1870	1437	1446	671	2581	1242	319	1261	333	83	9	331		131337

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No.
7410	2	7	2	25	9	14		24	52		21				156	2807	7410
7411		7	4	18		14		8	39		11				98	1990	7411
7412		4		12	4	5		11	25	3	13				77	1460	7412
7413	1	12		33	4	13	2	12	49	2	27				155	1744	7413
7414		3		7	11	4		5	3	3	10				51	1283	7414
7501		3		5			4	21	3		3				44	972	7501
7502				1							2				3	18	7502
7503		1							4						2	1011	7503
7504	2	5	4	20	5	4		13	51	6	30				140	2454	7504
7505		3	2	18	3	4		10	40		18				103	2162	7505
7506	1	12	3	19	7	12	1	13	50	2	12				132	2330	7506
7507		11		15	2	5		7	23		12				75	1684	7507
7508				1				1			1				3	209	7508
7509	2	5		22	16	2	2	13	23	1	21				107	2193	7509
7510		13	3	18	3	2		9	32		12				92	1420	7510
7511		12		47	15	20		1	6		5				106	1446	7511
7512									3		2				5	81	7512
7513				4				1	9		1				12	728	7513
7601		1						1			1				3	207	7601
7602																22	7602
7603																119	7603
7701																103	7701
7702																11	7702
7703		5		7	1	3		3	15		11				45	1293	7703
7704		7		11		1		4	1		21				47	354	7704
7801		19	1	141	8	30		47	117	6	64				433	5667	7801
7901	2	1	2	5	4			2	17		10				43	848	7901
7902	1	1		7	2				4		1				16	1060	7902
7903	1	6	2	14	2	6		3	27	3	22				85	1888	7903
7904		5		30	5	3		3	15		14				79	1494	7904
8001		6	1	11	1	5	5	13	50	1	20				113	1551	8001
8002		5		7	4	7		1	11		11				43	708	8002
8003		10		27	7	40	2	16	60	2	29				193	2712	8003
8004		14		35	1	60	3	11	35		21				180	1437	8004
8101		7	3	10				2	9	3	1				35	349	8101
8102	3	19	1	136	9	13		1	54	1	51				288	1545	8102
8103		5		7	1			4	9	3	12				38	375	8103
8104	1			6		2			6		4				19	104	8104
8105					1		14				2				17	26	8105
8201					3										3	340	8201
8202																	8202
Sub Total	97	885	83	1863	258	636	80	94[illegible]	2797	174	2091				9908	141245	Sub Total

External Stations

Zone No	7410	7411	7412	7413	7414	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7601	7602	7603	7701	7702	7703	7704	7801	7901	7902	7903	7904	8001	8002	8003	8004	8101	8102	8103	8104	8105	8201	8202	Total Internal Trips
3	2	2							2		3	1		7	3	3											4	2	6		3					1						131
4	7	8	4	10	2	1			17	7	14	4	2	8	4	5		1	1					6	8	21	4		5	5	2	8	6	9	5	3		1					821
5	1					2			1	1	3				1								2										2		2								70
6	23	10	8	31	10	4	3	1	22	19	19	20		25	17	32		2	1					9	15	131	13	5	12	50	5	16	17	27	10	107	5	8		1			1834
7	5		1	9	4	1			3	3	7	1	1	13	3	23		1	1						1	3	4	1		3	1	6	12	2	3	12	2	1	2	4			246
8	19	5	12	22	6	4			11	3	14	5		13	1	27			1					5	4	27	7		5	1	7	9	35	44		6							686
9														1		1													1	2	10		4	1					19				115
10	19	10		22	2	17			7	9	12	3		11	2	5			1					5	2	40	3		3	4	23	2	9	13	1	8	1		1	7			884
13	68	25	38	53	10	12	2	1	27	59	40	24	1	47	28	4		9	1					19	5	125	20	6	40	16	35	10	39	27	8	44	8	6	14	3			2920
14	3			3					1									1							1	4					2	2	4	5						1			188
15	23	15	14	11	4	19	5		19	16	21	9		14	4	10		1						6	18	69	17	3	15	3	16	18	12	10	6	44	7	5					1981
Sub Total	170	75	77	161	38	60	10	2	110	117	133	67	4	139	63	110		15	6				2	50	54	420	72	17	87	84	104	71	140	138	35	225	23	21	36	16			9876
Grand Total	2862	1963	1481	1731	1266	1015	25	1017	2452	2213	2376	1681	205	2232	1400	1425	74	731	210	18	113	107	13	1300	355	5503	877	1122	1957	1521	1550	742	2721	1380	354	1486	356	104	45	347			141213

External Stations

Zone No	3	4	5	6	7	8	9	10	13	14	15				Sub Total	Grand Total	Zone No.
3				1		1					2				8	139	3
4			1	16		1		3	67		41				129	950	4
5								1			2				3	73	5
6	2	17			2	3	3	5	52		119				203	2037	6
7				1					3	4					8	254	7
8		1		3				1	13	1	7				26	712	8
9		1	4	3					4		1				7	122	9
10	1	3		3		1			20	1	12				41	925	10
13		67	1	52	3	13	1	20		5	72				234	3154	13
14					4	1			4		3				12	200	14
15	1	42	1	119		7		13	75	1					261	2242	15
Sub Total	4	133	5	200	9	27	4	43	236	12	259				932	10808	Sub Total
Grand Total	101	1018	88	2063	267	663	84	987	3033	186	2350				10840	152053	Grand Total

GREAT FALLS URBAN TRANSPORTATION STUDY
KIND OF PARKING RELATED TO TRIP PURPOSE
ALL AUTO DRIVER TRIPS RECORDED IN THE INTERNAL SURVEY
1961

Table F - 1

Kind Of Parking	Trip Purpose										Total	Percent
	Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Poss-enger	Home		
Street Free	3349	2386	157	88	6358	27	1373	1914	1691	13721	31064	28.4
Street Meter	797	2082	237		732		66	2687	415	42	7058	6.4
Lot Free	12293	2998	334	236	5233	16	451	6410	865	1116	29952	27.3
Lot Paid	891	176	25		135		25	323	34	71	1680	1.5
Garage Free	13	8						26		84	131	0.1
Garage Paid	19									35	54	0.1
Service or Repair	15	441			25			493	18		992	0.9
Residental Property	258	275			868		1794	26	153	24409	27783	25.4
Cruised	156	50			955		8	16	25	9	1219	1.1
Not Parked	545	394		47	175		9	86	8075	269	9600	8.8
Total	18336	8810	753	371	14481	43	3726	11981	11276	39756	109533	100.0
Percent	16.8	8.0	0.7	0.3	13.2	0.1	3.4	10.9	10.3	36.3	100.0	

GREAT FALLS URBAN TRANSPORTATION STUDY
KIND OF PARKING RELATED TO TRIP PURPOSE
INTERNAL AUTO DRIVER TRIPS WITH DESTINATIONS
IN THE CENTRAL BUSINESS DISTRICT
1961

Table F -2

Kind Of Parking	Trip Purpose										Total	Percent
	Work	Business	Medical Dental	School	Social Rec-reational	Change Travel Mode	Eat Meal	Shopping	Serve Pass-enger	Home		
Street Free	803	307	66		330		50	277	185	62	2080	11.1
Street Meter	671	1944	221		639		66	2568	362	18	6489	34.7
Lot Free	2505	705	79	17	461	8	84	828	148	15	4850	26.0
Lot Paid	785	141	25		118		17	263	34	40	1423	7.6
Garage Free	14	8						8			30	0.2
Garage Paid	19										19	0.1
Service or Repair		111			8			120			239	1.3
Residential Property	19	8					9	9		172	217	1.2
Cruised	6				235				18		259	1.4
Not Parked	129	262		10	17			25	2624		3067	16.4
Total	4951	3486	391	27	1808	8	226	4098	3371	307	18673	100.0
Percent	26.5	18.7	2.1	0.1	9.7	0.1	1.2	21.9	18.1	1.6	100.0	